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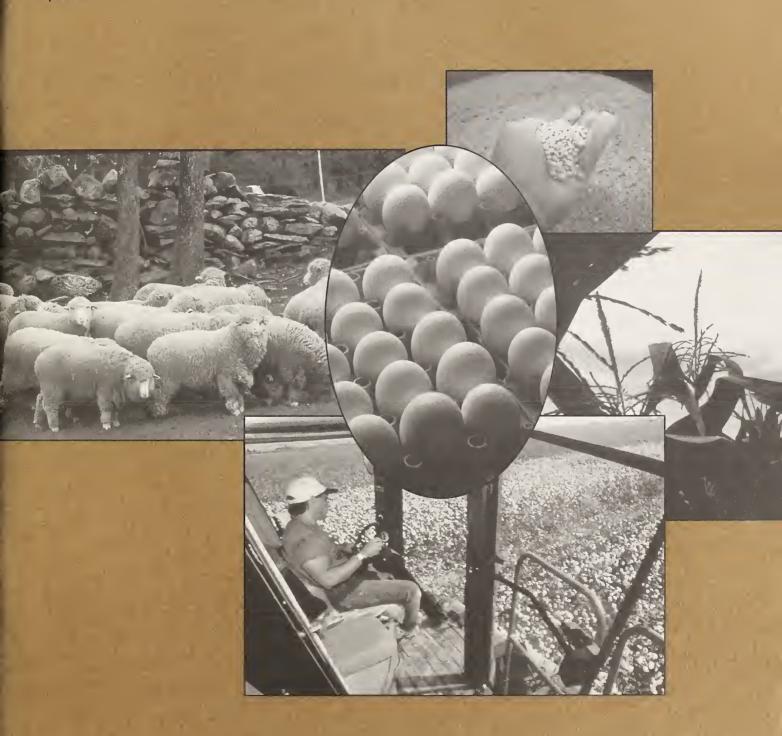
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Farmer Cooperative Statistics, 1999

MALT NEW TIMES



Abstract

A survey of U.S. farmer cooperatives ending their business year during calendar year 1999 showed a net income of \$1.3 billion, down from \$1.7 billion in 1998. Gross and net business volumes were down for the 3,466 cooperatives in the survey. Assets, liabilities, and net worth were up. Business volume by commodity handled is reported for all cooperatives and by State. Number of cooperatives, cooperative memberships, and number of employees are classified according to marketing, farm supply, and service function. Trends in cooperative numbers, memberships, employees, business size, sales volume, net income, assets, liabilities, and net worth are reported along with data on selected activities of other cooperative service organizations.

Keywords: cooperatives, statistics, business volume, employees, memberships, balance sheet, net income.

FARMER COOPERATIVE STATISTICS, 1999

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Preface

Farmer cooperative statistics are collected annually to provide information on the progress and trends in cooperatives' growth and development. Many people use these statistics for research, technical assistance, education, planning, and public policy. Acquiring, analyzing, and disseminating farmer cooperative statistics is authorized by the Cooperative Marketing Act of 1926.

This report provides aggregate information on the number, membership, business volume, net income, and full-time employees of farmer cooperatives for calendar year 1999. Cooperatives are classified by principal product marketed and major function. Fishery cooperatives are included as miscellaneous marketing cooperatives. Both gross (includes inter-cooperative business) and net (excludes inter-cooperative business) dollar volumes are reported.

Statistics for 1999 are compiled on a national and State basis. State data are collected every other year and next will be published in 2001.

The information was collected from individual farmer and fishery cooperatives by a mail survey of all organizations identified by USDA's Rural Business-Cooperative Service (RBS) as a farmer or aquacultural cooperative. Information was requested for cooperatives' 1999 business year.

RBS conducts an annual census because of the need to make more accurate estimates for all cooperatives and to use current data on cooperatives for research, education, and technical assistance purposes. Information obtained from individual cooperatives is combined to maintain confidentiality.

Statistics for all cooperatives were derived by adding data estimated for nonrespondents to respondent data. Respondents to the 1999 survey accounted for 91 percent of the total gross sales of farmer cooperatives.

RBS depends on the cooperative community's response to its annual survey to develop a detailed and comprehensive set of statistics on farmer cooperatives. The time and effort taken to provide information and the timeliness with which it is furnished are greatly appreciated.

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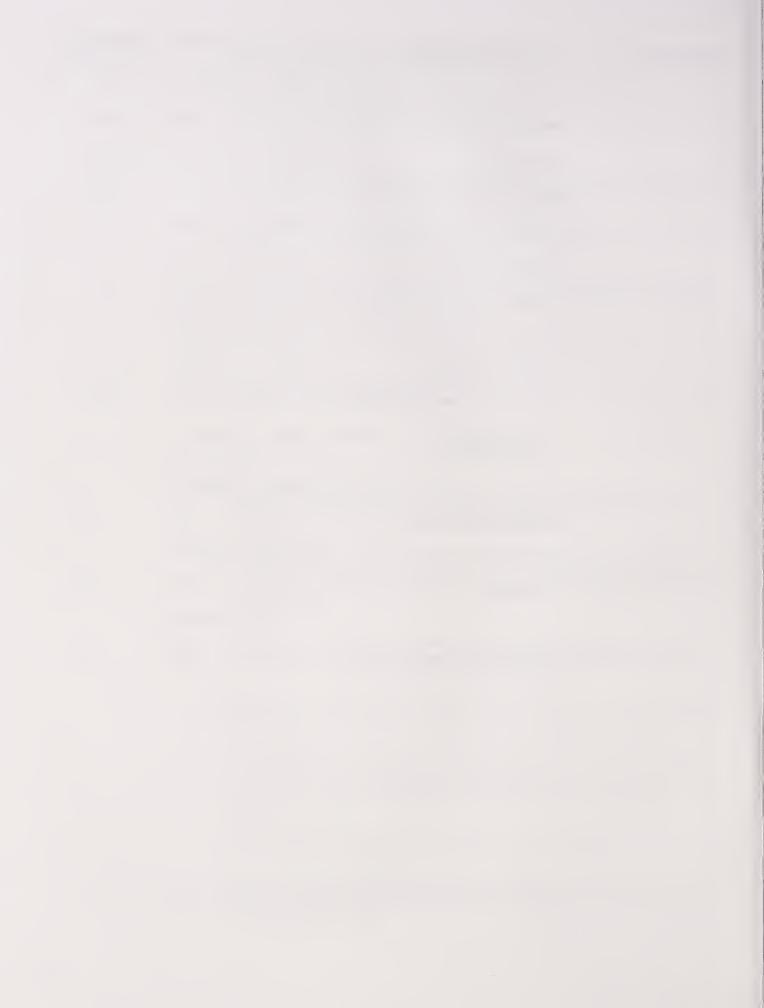
Highlights

Both gross and net business volumes dropped and net income declined significantly according to the 1999 survey of marketing, farm supply, and related-service cooperatives by USDA's Rural Business-Cooperative Service (RBS). Although the number of cooperatives and memberships declined, total assets, total liabilities, and net worth increased. Number of full-time employees decreased. However, use of part-time and seasonal employees was up.

- Total gross business volume (includes inter-cooperative business) handled by cooperatives dropped 4.7 percent, from \$121 billion in 1998 to \$115.3 billion in 1999.
- Total net business (excludes inter-cooperative business) dropped 5.4 percent or \$5.6 billion from \$104.7 billion to \$99.1 billion.
- Total net income of \$1.3 billion was down 23.8 percent from the \$1.7 billion reported for 1998. The 1999 net included inter-cooperative dividends and refunds of \$383.5 million-down 33.1 percent from \$573 million.
- The number of cooperatives declined 5.1 percent, from 3,651 to 3,466.
- Grain and farm supply cooperatives operated an estimated 5,330 branches in 1999, down from 5,617 in 1998.
- Cooperative memberships were 3,173,323, down 5.3 percent from 3,352,577 in 1998.
- Cooperatives employed 172,951 full-time and 102,473 part-time and seasonal employees in 1999. Numbers of full-time employees decreased 0.5 percent, while part-time and seasonal employees increased 11.6 percent.
- Gross value of farm products marketed by cooperatives in 1999 decreased 4.8 percent, from \$84.5 billion to \$80.5 billion. Net value of these farm products, after eliminating duplication from inter-cooperative business, was \$72 billion, down 6.1 percent from \$76.6 billion.
- Gross value of farm supplies handled by farmer cooperatives was down 6.3 percent, from \$33 billion to \$30.9 billion. After adjusting for inter-cooperative business, the decrease was 5.6 percent, from \$24.6 billion to \$23.2 billion.
- Receipts for services related to marketing farm products and handling farm supplies, plus other income, increased 12.4 percent, from \$3.5 billion to \$3.9 billion.
- Combined assets for all farmer cooperatives increased 2.4 percent, from \$46.6 billion to \$47.7 billion. Net assets, after eliminating inter-cooperative investments, was up 1.1 percent, from \$41.9 billion to \$42.3 billion. This included investments in CoBank.
- Total liabilities of \$27.4 billion was up 3.1 percent from \$26.6 billion.
- Net worth, or member and patron equity, rose 1.6 percent to nearly \$20.3 billion from \$20 billion. Member and patron equity financed 42.5 percent of total assets, down from 42.9 percent in 1998.

Highlights

| HIGHLIGHTS CAPSULE | | | |
|-----------------------------------|-----------|-----------|----------|
| | 1998 | 1999 | Change |
| Number of cooperatives | 3,651 | 3,466 | -185 |
| Memberships | 3,352,577 | 3,173,323 | -179,254 |
| Gross business volume (mil. dol.) | 120,961 | 115,291 | -5,670 |
| Net business volume (mil. dol.) | 104,667 | 99,064 | -5,603 |
| Net income (mil. dol.) | 1,742 | 1,328 | -414 |
| Total assets (mil. dol.) | 46,560 | 47,682 | 1,122 |
| Net worth (mil. dol.) | 19,954 | 20,263 | 309 |
| Full-time employees | 173,791 | 172,951 | -840 |
| Part-time and seasonal employees | 91,799 | 102,473 | 10,674 |
| Leading States | 1997 | 1999 | |
| | Minnesota | Minnesota | |
| Number of cooperatives | 368 | 305 | -63 |
| | Minnesota | Kentucky | |
| Memberships | 296,058 | 231,862 | N/A |
| · | lowa | Minnesota | |
| Net business volume (mil. dol.) | 10,941 | 9,306 | N/A |



FARMER COOPERATIVE STATISTICS, 1999

Charles A. Kraenzle, Ralph M. Richardson, Celestine C. Adams, Katherine C. DeVille, and Jacqueline E. Penn Rural Business-Cooperative Service

I—Definition of a Farmer Cooperative

The Rural Business-Cooperative Service (RBS) in USDA's Rural Development mission area considers four major criteria in identifying an organization as a farmer cooperative: (1) membership is limited to persons producing agricultural and aquacultural products and to associations of such producers; (2) cooperative members are limited to one vote regardless of the amount of stock or membership capital owned, or the cooperative does not pay dividends on stock or membership capital in excess of 8 percent a year, or the legal rate in the State, whichever is higher; (3) business conducted with nonmembers may not exceed the value of business done with members; and (4) the cooperative operates for the mutual interest of members by providing member benefits on the basis of patronage.

These criteria may create larger or smaller numbers of farmer cooperatives than found in lists or directories of State agencies or cooperative councils. RBS includes only marketing, farm supply, and related-service cooperatives on its list. Fishery cooperatives are included with miscellaneous marketing cooperatives. Wool pools are included as marketing cooperatives. Livestock shipping associations and rice drying cooperatives, beginning with 1992 and 1993, respectively, are considered service cooperatives.

Many State lists include other types, such as production, credit, telephone, electric, and consumer cooperatives, as well as those that do not meet the RBS definition. Other reasons for possible differences in the number of cooperatives are that: (1) RBS may not learn of certain cooperatives operating in a State for a considerable period of time; (2) a cooperative may not

have completed and returned an initial questionnaire; or (3) no notice is received that a cooperative discontinued operating.

Year-to-year comparisons with specific commodity groups, therefore, should reflect any differences in lists and classifications in State and Federal data.

Classification of Cooperatives

Statistics are presented according to a cooperative's major function or classification--marketing, farm supply, and related-service.

Marketing cooperatives derive most of their total dollar volume from the sale of members' farm products. RBS classifies these cooperatives into one of 13 commodities or commodity groups depending upon which accounts for most of its business volume. RBS may reclassify a cooperative into a different commodity category if its primary business volume changes significantly.

Farm supply cooperatives derive most of their business volume from the sale of farm production supplies. These cooperatives handle a wide variety of supplies, farm machinery and equipment, and building materials. Many also handle farm and home items, such as heating oil, lawn and garden supplies and equipment, and food.

Service cooperatives provide specialized services related to the agricultural business operations of farmers, ranchers, or cooperatives, such as cotton ginning, trucking, storing, drying, and artificial insemination. Livestock shipping associations and rice drying cooperatives were reclassified from marketing to service in 1992 and 1993, respectively.

Many cooperatives handle multiple commodities and provide both marketing and farm supply services, as well as the facilities and equipment used to perform these services. These associations are classified according to the predominant commodity or function, as indicated by their business volume.

Information on other types of service cooperatives, such as Farm Credit System institutions, rural credit unions, rural electric cooperatives, and dairy herd improvement associations, is presented separately.

Organizational Membership Structures

Centralized

Of the 3,466 farmer cooperatives in 1999, 3,379 were centralized organizations, mostly locals with individual farmer-members. Centralized cooperatives usually serve a local area or community, county, or several counties. Most usually perform a limited number of initial marketing functions. Most farm supply sales are at the retail level. A few centralized cooperatives, principally regionals, operate over large geographic areas and have members in several States. They often provide more vertically integrated services, such as processing farm products or manufacturing feed and fertilizer.

Bargaining associations also have a centralized organizational structure. They derive all or most of their business volume from negotiating with distributors, processors, and other buyers and sellers over price, quantity, grade, terms of sale, and other factors involved in marketing farm products. Only a few bargain to purchase farm supplies. While the primary function of such an association is to bring buyers and sellers together to contract for the sale of members' products, many bargaining associations now perform additional functions.

For example, dairy bargaining associations at one time only negotiated price. Now, many perform additional functions, such as physically handling part of the milk for spot sales. They, like other dairy marketing cooperatives, represent their members at Federal or State milk marketing order hearings.

Federated

Federated cooperatives comprise two or more member associations organized to market farm products, purchase production supplies, or perform bargaining functions.

The 63 federated associations often operate at points quite distant from their headquarters. Federated cooperative members are usually local cooperatives, although some are interregional associations with regional cooperative members.

Mixed

A few cooperatives have both individual farmermembers and autonomous cooperative members, a combination of centralized and federated structures. They serve large geographic areas, with members in many States, and provide a variety of integrated services. RBS has identified 24 such cooperatives.

II—1999 STATISTICS

Cooperatives' net business volume was \$99.1 billion in 1999, down from \$104.7 billion in 1998; the second year in a row that business volume dropped. Net income of \$1.3 billion was down from \$1.7 billion in 1998, a drop of 23.8 percent. Net income, like business volume, also dropped for the second year. Numbers of cooperatives and memberships, at 3,466 and 3,173,323, respectively, were down. Combined assets, net worth and liabilities were all up.

Table 1— Number of cooperatives and memberships, by major business activity, 1999

| Major business activity | Cooperatives | Memberships | |
|----------------------------|--------------|-------------|--|
| | Number | | |
| Beans and peas, dry edible | 8 | 2,796 | |
| Cotton | 15 | 43,754 | |
| Dairy | 221 | 90,675 | |
| Fruits and vegetables | 231 | 40,876 | |
| Grains and oilseeds 1 | 896 | 657,921 | |
| Livestock | 81 | 137,054 | |
| Nuts | 18 | 43,749 | |
| Poultry ² | 15 | 29,190 | |
| Rice | 17 | 11,799 | |
| Sugar ³ | 48 | 15,703 | |
| Tobacco | 25 | 170,026 | |
| Wool and mohair | 84 | 15,440 | |
| Miscellaneous | 90 | 23,856 | |
| Total marketing | 1,749 | 1,282,839 | |
| Farm supply | 1,313 | 1,731,377 | |
| Service | 404 | 159,107 | |
| Total | 3,466 | 3,173,323 | |
| | | | |

¹ Cooperatives primarily handling grains and oilseeds, excluding cottonseed.

² Includes eggs, turkeys, ratite, squab, and related products.

³ Includes beets, sugarcane, honey, and related products.

Number of Cooperatives

The 1999 survey accounted for 3,466 marketing, farm supply, and related-service ¹ cooperatives, compared with 3,651 in 1998. The net decrease of 185 associations (5.1 percent) largely reflects a continuing trend involving dissolution, merger, or acquisition. The largest decrease was in grain and oilseed (grain) cooperatives (68), followed by related-service (37) and farm supply (34) cooperatives.

Of the 3,466 cooperatives, 1,749 primarily marketed farm products, 1,313 primarily handled farm production supplies, and 404 provided services related to marketing or purchasing activities (table 1).

Marketing cooperatives decreased slightly, from 51 percent in 1998 to 50.5 percent of the total number of cooperatives in 1999, while farm supply cooperatives increased slightly, from 36.9 to 37.9 percent. Related-service cooperatives decreased slightly, from 12.1 to 11.7 percent.

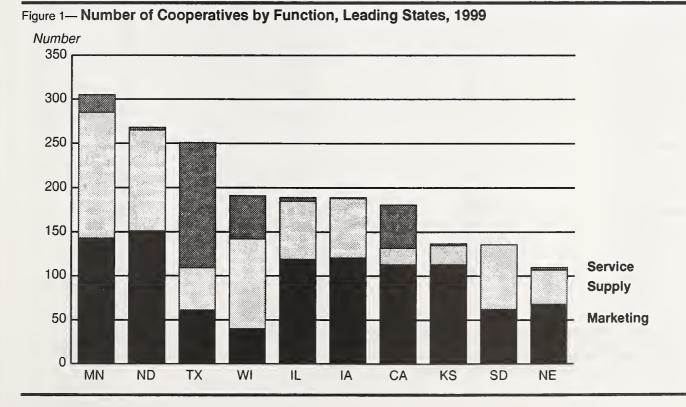
These percentage changes to some extent reflect reclassification because of annual dollar volume changes. In any given year, sales of farm supplies or grains and oilseeds can be higher due to market supply and demand conditions.

Cooperative numbers by marketing and farm supply and service functions by State are shown in table 2. North Dakota is the leading State in marketing cooperatives (151), followed closely by Minnesota (143). Texas accounted for the largest number of farm supply and service cooperatives.

The 10 leading States in terms of number of cooperatives are shown in figure 1, which also shows the number of cooperatives by function in each State. For example, Minnesota had about an equal number of marketing and farm supply cooperatives, while the majority in Texas were service cooperatives, mainly cotton gins. South Dakota, the ninth leading State, had the largest percentage of farm supply cooperatives.

Grain and Farm Supply Branches

Many cooperatives operate branch facilities to better serve their members. Most are owned. Some are leased. A number of formerly independent cooperatives are serving a local community. For economic or other reasons, many were acquired by or merged with other cooperatives and operated as branches from which to serve members and patrons at outlying locations.



¹ Services include trucking, cotton ginning, storage, crop drying, artificial insemination, livestock shipping, and similar services affecting the form, quality, or location of farm products and supplies. They do not include credit, electric, telephone, or other such services not directly related to marketing or purchasing activities.

Table 2—Number of cooperatives¹, by major function and State, 1999 ²

| | Majo | or function | | |
|---------------------------|-----------|-------------------------|-------|--|
| State | Marketing | Farm Supply and Service | Total | |
| | | Number | | |
| Alabama | 10 | 53 | 63 | |
| Arizona | 5 | 4 | 9 | |
| Arkansas | 11 | 42 | 53 | |
| California | 113 | 68 | 181 | |
| Colorado | 27 | 20 | 47 | |
| Florida | 32 | 7 | 39 | |
| Georgia | 8 | 8 | 16 | |
| Hawaii | 21 | 7 | 28 | |
| Idaho | 25 | 15 | 40 | |
| Illinois | 119 | 70 | 189 | |
| Indiana | 23 | 32 | 55 | |
| lowa | 121 | 68 | 189 | |
| Kansas | 113 | 24 | 137 | |
| Kentucky | 12 | 29 | 41 | |
| Louisiana | 17 | 31 | 48 | |
| Maryland | | 17 | 21 | |
| | 4 | | | |
| Massachusetts | 8 | 5 | 13 | |
| Michigan | 34 | 28 | 62 | |
| Minnesota | 143 | 162 | 305 | |
| Mississippi | 18 | 58 | 76 | |
| Missouri | 25 | 46 | 71 | |
| Montana | 38 | 35 | 73 | |
| Nebraska | 68 | 42 | 110 | |
| New Jersey | 13 | 5 | 18 | |
| New Mexico | 5 | 5 | 10 | |
| New York | 82 | 16 | 98 | |
| North Carolina | 19 | 7 | 26 | |
| North Dakota | 151 | 117 | 268 | |
| Ohio | 59 | 24 | 83 | |
| Oklahoma | 45 | 49 | 94 | |
| Oregon | 20 | 15 | 35 | |
| Pennsylvania | 42 | 14 | 56 | |
| South Dakota | 62 | 74 | 136 | |
| Tennessee | 8 | 71 | 79 | |
| Texas | 61 | 190 | 251 | |
| Utah | 10 | 7 | 17 | |
| Virginia | 21 | 38 | 59 | |
| Washington | 50 | 34 | 84 | |
| West Virginia | 14 | 13 | 27 | |
| Wisconsin | 40 | 151 | 191 | |
| Wyoming | 7 | 6 | 13 | |
| Other States ³ | 45 | 10 | 55 | |
| United States | 1,749 | 1,717 | 3,466 | |

¹ Centralized and federated cooperatives and those with mixed organizational structures.

² Data covering operations of cooperatives whose fiscal years ended in 1999.

Includes States with fewer than three cooperatives for any function. States with at least three cooperatives were: Alaska, 9; Connecticut, 4; Delaware, 3; Maine 24; South Carolina, 6; and Vermont, 5.

In 1999, grain and farm supply cooperatives operated an estimated 5,330 branches--2,163 and 3,167, respectively. There was a decrease of 136 branches for grain cooperatives and a decrease of 151 branches for farm supply cooperatives. Both grain and farm supply cooperative in 1999. In 1998, grain and farm supply cooperatives operated an estimated 5,617 branches.

Figure 2 shows that several of the largest cooperatives (mainly regional) had more branches than many smaller (local) cooperatives combined. The 51 largest grain cooperatives--5.7 percent of all grain cooperatives--accounted for 35.2 percent of the total number of branches operated by grain cooperatives. And the 94 largest farm supply cooperatives--7.2 percent of all farm supply cooperatives--had 1,663 branches, 52.5 percent of all farm supply branches.

Memberships

Memberships in marketing, farm supply, and related-service cooperatives totaled an estimated 3,173,323 in 1999, down 5.3 percent from 3,352,577 in 1998 (table 3).

By the cooperative's major business activity, 54.5 percent were memberships of farm supply cooperatives (figure 3) and 20.7 percent were of grain. Dairy

cooperative memberships were only 2.9 percent of cooperatives' total memberships, but accounted for 26.2 percent of cooperatives' net business volume in 1999, up from 24.2 percent in 1998.

Among marketing cooperatives, memberships decreased in 1999 for every type except cotton.

The largest proportions of memberships in farm supply cooperatives were among the smallest and largest cooperatives (figure 4). Memberships in marketing cooperatives were the greatest proportion of total memberships among those cooperatives with gross business volumes of \$15 million to \$100 million.

Employees

Farmer cooperatives, like other businesses, employ full-time and, in most cases, part-time and seasonal employees to run their operations. The number and type of employees hired depends on a number of factors, such as size of operation, type of commodity handled, and involvement in value-added activities.

In 1999, farmer cooperatives employed an estimated 275,424 full-time, part-time and seasonal employees, up from 265,590 in 1998 (table 4) due to increased use of part-time employees. By type, marketing cooperatives had 192,920 employees (70 percent of

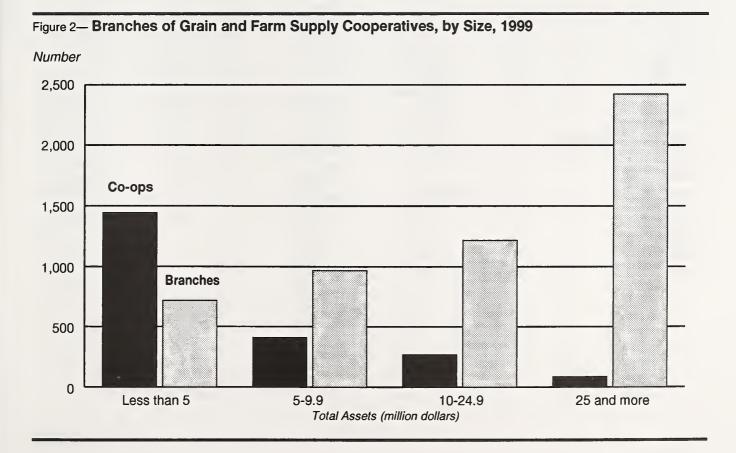


Table 3— Number of co-ops¹ and memberships², by major business activity and State,1999³

| State | Hqts. in State | Memberships | State | Hqts. in State | Memberships |
|------------------------|----------------|---------------|------------------|--------------------|-------------|
| BEANS AND PEAS, | DRY EDIBLE | | FRUITS AND VEGET | TABLES (Continued) | |
| California | 3 | 666 | Massachusetts | 3 | 312 |
| North Dakota | 3 | 1,000 | Michigan | 14 | 3,379 |
| Other States | 2 | 1,130 | Minnesota | 3 | 221 |
| United Ctates | _ | 0.706 | New Jersey | 9 | 713 |
| United States | 8 | 2,796 | New York | 9 | 975 |
| COTTONA | | | North Carolina | 4 | 72 |
| COTTON ⁴ | 0 | 1.507 | North Dakota | 3 | 214 |
| California | 3 | 1,537 | Ohio | 5 | 457 |
| Mississippi | 3 | 2,786 | Oregon | 11 | 1,101 |
| Texas | 4 | 24,081 | Pennsylvania | 6 | 555 |
| Other States | 5 | 15,152 | Texas | 3 | 247 |
| Foreign⁵ | | 198 | Washington | 19 | 5,367 |
| United States | 15 | 43,754 | Other States | 20 | 2,572 |
| | | | Foreign⁵ | _ | 91 |
| DAIRY | | | | | |
| California | 8 | 1,215 | United States | 231 | 40,876 |
| Illinois | 4 | 2,609 | | | |
| lowa | 8 | 4,717 | GRAINS AND OILSE | | |
| Massachusetts | 3 | 243 | California | 3 | 231 |
| Minnesota | 35 | 17,097 | Colorado | 15 | 9,091 |
| New Mexico | 5 | 316 | Idaho | 5 | 1,141 |
| New York | 67 | 6,433 | Illinois | 110 | 94,841 |
| North Dakota | 5 | 1,108 | Indiana | 19 | 29,224 |
| Ohio | 5 | 845 | lowa | 106 | 87,897 |
| Oregon | 3 | 794 | Kansas | 113 | 113,038 |
| Pennsylvania | 19 | 2,612 | Michigan | 6 | 2,758 |
| Texas | 4 | 1,913 | Minnesota | 94 | 52,651 |
| Virginia | 4 | 1,187 | Mississippi | 5 | 2,711 |
| Wisconsin | 30 | 25,266 | Missouri | 17 | 22,637 |
| Other States | 21 | 24,320 | Montana | 12 | 3,121 |
| Julei Glales | | 24,020 | Nebraska | 60 | 61,592 |
| United States | 221 | 90,675 | North Dakota | 119 | 45,786 |
| Jilled States | 221 | 90,073 | Ohio | 41 | 28,899 |
| FRUITS AND VEGET | TARLES | | Oklahoma | 41 | 30,821 |
| Arizona | | 752 | South Dakota | 60 | 36,813 |
| Arkansas | 4 3 | 752 98 | Texas | 37 | 17,577 |
| California | 67 | 18,652 | Washington | 21 | 11,568 |
| California Colorado | | 18,652 471 | Other States | 12 | 5,524 |
| | 9 | | United States | 896 | 657,921 |
| Florida | 23 | 1,738 | United States | 090 | 057,321 |
| Hawaii | 7 | 343 | | | |
| Idaho | 4 | 2,002 | | | |
| Maine | 5 | 544 | | | |

Table 3— Number of co-ops¹, and memberships², by major business activity and State,1999³ (continued)

| State | Hqts. in State | Memberships | State | Hqts. in State | Memberships |
|---------------------------|----------------|-------------|----------------------|-------------------|-------------|
| LIVESTOCK | | | TOBACCO ⁷ | | |
| Alabama | 6 | 5,240 | Kentucky | 5 | 76,989 |
| -lawaii | 4 | 81 | North Carolina | 7 | 24,852 |
| daho | 3 | 4,355 | Tennessee | 7 | 67,112 |
| Ilinois | 3 | 19,122 | Virginia | 3 | 739 |
| ndiana | 3 | 2,081 | Other States | 3 | 334 |
| Kentucky | 4 | 868 | | | |
| Mississippi | 4 | 4,225 | United States | 25 | 170,026 |
| Missouri | 6 | 5,366 | | | |
| North Dakota | 8 | 567 | WOOL AND MOHAIR | | |
| Ohio | 4 | 7,425 | ldaho | 4 | 159 |
| /irginia | 4 | 810 | Montana | 19 | 861 |
| Virginia Vest Virginia | 3 | 426 | North Dakota | 4 | 412 |
| Visconsin | 5 | 60,617 | Ohio | 3 | 1,518 |
| Other States | | | Pennsylvania | 14 | 1,901 |
| other States | <u>24</u> | 25,871 | Utah | 3 | 125 |
| Jnited States | 81 | 137,054 | Virginia | 8 | 590 |
| | | | West Virginia | 10 | 899 |
| IUT | | | Wyoming | 3 | 183 |
| California | 7 | 6,764 | Other States | 16 | 8,710 |
| Other States | 11 | 36,985 | Foreign ⁵ | | 82 |
| Inited States | 18 | 43,749 | United States | 84 | 15,440 |
| onica oraco | 10 | 40,749 | Officed Otates | 04 | 10,440 |
| POULTRY ⁸ | | | MISCELLANEOUS10 | | |
| California | 3 | 82 | Alaska | 9 | 1,603 |
| Jtah | 3 | 65 | California | 10 | 1,383 |
| Other States | 9 | 28,954 | Florida | 6 | 325 |
| oreign ⁵ | _ | 89 | Georgia | 3 | 80 |
| · · | _ | | Hawaii | 6 | 562 |
| Inited States | 15 | 29,190 | Maine | 15 | 924 |
| | | | Minnesota | 5 | 11,069 |
| RICE | | | Mississippi | 3 | 186 |
| California | 5 | 1,789 | North Dakota | 6 | 2,322 |
| ouisiana. | 3 | 186 | Washington | 5 | 707 |
| exas | 6 | 918 | Other States | 22 | 4,695 |
| Other States | 3 | 8,905 | Other States | | 4,050 |
| oreign⁵ | | 1 | United States | 90 | 23,856 |
| Inited States | 17 | 11,799 | TOTAL MARKETING | | |
| | | | Alabama | 10 | 14,498 |
| SUGAR9 | | | Alaska | 9 | 1,815 |
| daho | 7 | 2,051 | Arizona | 9 5 | 2,191 |
| ouisiana | 9 | 583 | Arkansas | | |
| fichigan | 7 | 2,117 | | 11 | 12,460 |
| finnesota | 3 | 2,467 | California | 113 | 34,903 |
| fontana | 3 | 517 | Colorado | 27 | 12,936 |
| Vyoming | 4 | 455 | Florida | 32 | 5,696 |
| other States | 15 | 7,511 | Georgia | 8 | 23,931 |
| | 15 | | Hawaii | 21 | 1,300 |
| oreign⁵ | _ | 2 | Idaho | 25 | 10,249 |
| Inited States | 48 | 15,703 | Illinois | 119 | 116,926 |
| | | | Indiana | 23 | 32,774 |
| | | | lowa | 121 | 99,245 |

Table 3— Number of co-ops¹ and memberships², by major business activity and State,1999³ (continued)

| State | Hqts. in State | Memberships | State | Hqts. in State | Memberships |
|---------------------|----------------|------------------|----------------------------|----------------|-------------|
| TOTAL MARKETING | (Continued) | | FARM SUPPLY (Cor | ntinued) | |
| Kansas | 113 | 116,201 | Kentucky | 28 | 147,137 |
| Kentucky | 12 | 80,984 | Louisiana | 19 | 6,529 |
| Louisiana | 17 | 3,946 | Maryland | 15 | 70,647 |
| Maine | 22 | 1,878 | Massachusetts | 5 | 4,371 |
| Maryland | 4 | 789 | Michigan | 23 | 11,344 |
| Massachusetts | 8 | 846 | Minnesota | 142 | 96,651 |
| Michigan | 34 | 13,636 | Mississippi | 37 | 86,153 |
| Minnesota | 143 | 85,225 | Missouri | 45 | 109,267 |
| Mississippi | 18 | 11,782 | Montana | 35 | 23,704 |
| Missouri | 25 | 32,734 | Nebraska | 39 | 26,848 |
| Montana | 38 | 5,016 | New Jersey | 3 | 4,636 |
| Nebraska | 68 | 65,505 | New York | 11 | 1,805 |
| New Jersey | 13 | 2,647 | North Dakota | 114 | 57,853 |
| New Mexico | 5 | 1,259 | Ohio | 20 | 13,225 |
| New York | 82 | 9,630 | Oklahoma | 28 | 18,633 |
| North Carolina | 19 | 27,635 | Oregon | 14 | 19,288 |
| North Dakota | 151 | 55,582 | Pennsylvania | 7 | 28,262 |
| Ohio | 59 | 39,183 | South Dakota | 74 | 60,713 |
| Oklahoma | 45 | 41,832 | Tennessee | 70 | 68,265 |
| Oregon | 20 | 5,348 | Texas | 48 | 33,106 |
| Pennsylvania | 42 | 5,167 | Utah | 6 | 5,642 |
| South Carolina | 4 | 3,040 | Virginia | 35 | 142,171 |
| South Dakota | 62 | 41,333 | _ | 30 | 11,919 |
| | | | Washington | 13 | |
| ennessee | 8 | 69,266 | West Virginia Wisconsin | 102 | 73,498 |
| exas | 61 | 50,694 | | | 97,009 |
| Jtah | 10 | 2,759 | Wyoming | 6 | 4,129 |
| /ermont | 5 | 1,614 | Other States | 12 | 155,185 |
| /irginia | 21 | 26,517 | Foreign ⁵ | | 4,326 |
| Vashington | 50 | 19,262 | United States | 1,313 | 1,731,377 |
| Vest Virginia | 14 | 1,530 | | | |
| Visconsin | 40 | 87,382 | SERVICE11 | | |
| Vyoming | 7 | 1,016 | Alabama | 5 | 180 |
| Other States | 5 | 2,214 | Arizona | 4 | 855 |
| oreign ⁵ | | 463 | Arkansas | 6 | 1,110 |
| Jnited States | 1,749 | 1,282,839 | California | 49 | 4,015 |
| | ., | ,,, | Georgia | 3 | 365 |
| ARM SUPPLY | | | Hawaii | 5 | 107 |
| Alabama | 48 | 39,208 | Illinois | 4 | 255 |
| Arkansas | 36 | 42,468 | Louisiana | 12 | 1,819 |
| California | 19 | 14,686 | Michigan | 5 | 4,808 |
| Colorado | 19 | 19,677 | Minnesota | 20 | 5,026 |
| Florida | 6 | 8,823 | Mississippi | 21 | 7,304 |
| Georgia | 5 | 2,377 | New Mexico | 4 | 1,504 |
| daho | 5 14 | 2,377 8,334 | New York | 5 | 6,335 |
| llinois | 66 | 78,077 | North Carolina | 5 | 108 |
| ndiana | 30 | 42,532 | North Dakota | 3 | 5,000 |
| | 67 | 42,532 75,918 | Ohio | 4 | 3,562 |
| owa Kanasa | | | | 21 | 8,146 |
| Kansas | 22 | 16,961 | Oklahoma | 21 | 0,140 |

Number of co-one! and memberships? by major business activity and State 1999.3

| State | Hqts. in State | Memberships | State | Hqts. in State |
|-----------------------------------|----------------|-------------|---|---|
| SERVICE ¹¹ (Continued) | | | TOTAL (Continued) | |
| Pennsylvania | 7 | 11,579 | Ohio | 83 |
| Texas | 142 | 34,264 | Oklahoma | 94 |
| Virginia | 3 | 5,620 | Oregon | 35 |
| Washington | 4 | 2,722 | Pennsylvania | 56 |
| Wisconsin | 49 | 21,299 | South Carolina | 6 |
| Other States | 23 | 33,124 | South Dakota | 136 |
| 1. 5. 1.0. | | | Tennessee | 79 |
| United States | 404 | 159,107 | Texas | 251 |
| | | | Utah | 17 |
| TOTAL | | | Vermont | 5 |
| Alabama | 63 | 53,886 | Virginia | 59 |
| Alaska | 9 | 1,815 | Washington | 84 |
| Arizona | 9 | 3,376 | West Virginia | 27 |
| Arkansas | 53 | 56,038 | Wisconsin | 191 |
| California | 181 | 53,604 | Wyoming | 13 |
| Colorado | 47 | 32,613 | Other States | 4 |
| Connecticut | 4 | 2,728 | Foreign ⁵ | |
| Delaware | 3 | 43,422 | i oreign- | |
| Florida | 39 | 26,050 | United States | 3,466 |
| Georgia | 16 | 26,673 | | |
| Hawaii | 28 | 2,768 | ¹ Includes centralized | • |
| daho | 40 | 18,583 | mixed organizational ² Includes farmer-mem | |
| Ilinois | 189 | 195,258 | | Suplication in these me |
| ndiana | 55 | 75,409 | | y farmers belong to mo |
| owa | 189 | 180,168 | • | may not add due to rou |
| Kansas | 137 | 133,269 | 3 Data covering operat | · · |
| Kentucky | 41 | 231,862 | | s listed are those with e disclosure is not a pr |
| Louisiana | 48 | 12,294 | 4 Cotton ginning coope | · |
| Maine | 24 | 8,348 | cooperatives. | |
| Maryland | 21 | 71,953 | 5 Includes membership | s located in other coul |
| Massachusetts | 13 | 5,551 | ⁶ Excludes soybean m | |
| Michigan | 62 | 29,788 | Membership fluctuate which producers part | • |
| Minnesota | 305 | 186,902 | 8 Includes eggs, turkey | icipate in price stabiliza |
| Mississippi | 76 | 105,239 | 9 Includes sugar, suga | |
| Missouri | 71 | 142,771 | molasses, and sorgh | |
| Montana | 73 | 28,720 | 10 Includes forest produ | |
| Vebraska | 110 | 92,353 | • | not separately classifie |
| TODI GONG | 110 | 32,000 | 11 Cooperatives providi | ng services such as co |

7,347

2,974

17,770

98,404

118,435

18

10

98

26

268

New Jersey

New Mexico

North Carolina

North Dakota

New York

atives and those with

Memberships

55,970 68,611 24,638 45,008 3,458 107,046 139,124 118,064 10,013 5,981 174,308 33,903 75,083 205,690 5,145 30,121 4,789 3,173,323

for directors), but not embership figures ore than one unding.

or fiscal years that more than two roblem.

is service

ıntries.

cted by the extent to ation programs.

elated products.

oney, maple syrup,

ry stock, coffee, and

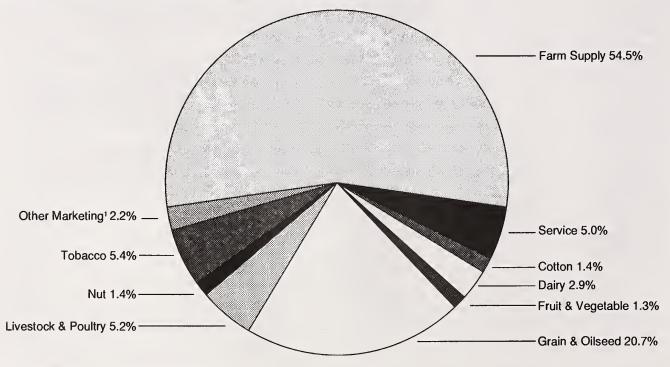
11 Cooperatives providing services such as cotton ginning, livestock shipping, storing, grinding, drying, and artificial insemination.

Table 4— Full-time and part-time and seasonal employees of farmer cooperatives, by type of co-op, 1998-99

| Principal product(s) | Full-time | Full-time employees | | and seasonal 1 | |
|-----------------------------|-----------|---------------------|--------|----------------|--|
| marketed or major function | 1998 | 1999 | 1998 | 1999 | |
| | | Nun | mber | | |
| Products marketed: | | | | | |
| Cotton | 1,844 | 1,787 | 1,050 | 1,409 | |
| Dairy | 27,056 | 24,598 | 925 | 1,875 | |
| Fruits & vegetables | 23,734 | 23,329 | 34,321 | 48,004 | |
| Grains and oilseeds, | | | | | |
| excluding cottonseed | 23,873 | 20,998 | 8,538 | 7,916 | |
| Livestock and poultry | 28,031 | 32,690 | 13,776 | 2,666 | |
| Rice | 2,655 | 2,600 | 231 | 1,443 | |
| Sugar | 4,402 | 4,459 | 4,052 | 4,431 | |
| Other products ² | 8,474 | 8,525 | 2,173 | 6,190 | |
| Marketing | 120,069 | 118,986 | 65,066 | 73,934 | |
| Farm supply | 48,171 | 49,466 | 18,335 | 20,774 | |
| Service | 5,551 | 4,499 | 8,398 | 7,765 | |
| Total | 173,791 | 172,951 | 91,799 | 102,473 | |

Number of part-time and seasonal employees was estimated for all cooperatives based on the relationship of part-time and seasonal to full-time employees for the respondent cooperatives. Totals may not add due to rounding.

Figure 3— Distribution of Memberships, by Type of Cooperative, 1999



Percent based on 3,173,323 total memberships.

² Includes dry edible beans and peas, nuts, tobacco, wool, fishery, and miscellaneous marketing cooperatives.

¹ Includes dry bean and pea, wool and mohair, rice, sugar, fishery, and other miscellaneous marketing cooperatives.

Figure 4— Cooperative Memberships Grouped by Function and Gross Business Volume, 1999 1,000 Memberships

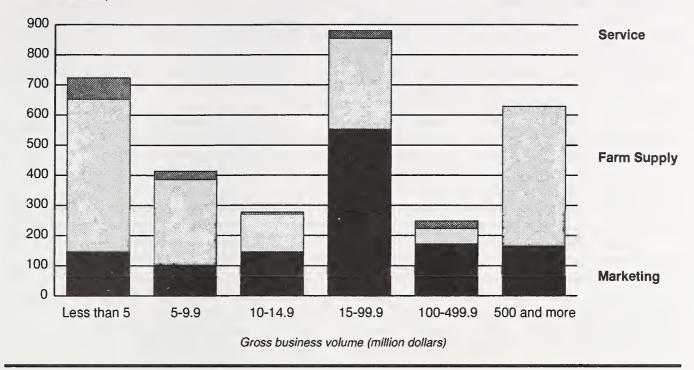
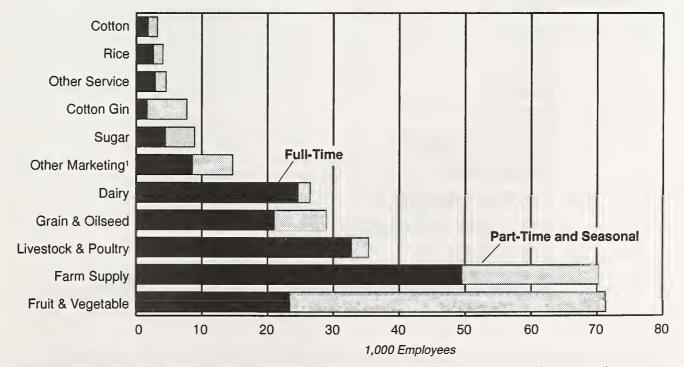


Figure 5— Full-Time and Part-Time and Seasonal Employees, by Type of Cooperative, 1999



¹ Includes dry bean and pea, nut, tobacco, wool and mohair, fishery, and other miscellaneous marketing cooperatives.

total); farm supply cooperatives had 70,240 employees (25.5 percent); and related-service cooperatives had 12,264 employees (4.5 percent).

Among marketing cooperatives, those primarily handling fruits and vegetables had the most employees (71,333), followed by livestock and poultry (35,356) and grain and oilseed (28,914).

Figure 5 shows the number of full-time and part-time and seasonal employees by type of cooperative for 1999. Fruit and vegetable and farm supply cooperatives used the most employees and cotton cooperatives the fewest. Dairy cooperatives had the smallest proportion of total part-time and seasonal employees. Fruit and vegetable cooperatives, followed by cotton gin and sugar cooperatives, had the largest proportion of part-time and seasonal employees.

Full-time employees totaled 172,951 in 1999, down from 173,791 in 1998, or 0.5 percent. The number per association, however, was nearly 50, up from 48 in 1998, due to fewer cooperatives. The 1,749 marketing cooperatives employed 118,986 persons, down 0.9 percent from 1998. Livestock and poultry cooperatives, with 32,690, had the most full-time employees, while

dairy cooperatives, with 24,598, ranked second. Together, they accounted for 48.1 percent of the fulltime employees of marketing cooperatives.

The 1,313 farm supply cooperatives hired 49,466 full-time employees, up 2.7 percent from 48,171 reported by 1,347 farm supply cooperatives for 1998. Full-time employees of the 404 related-service cooperatives totaled 4,499 in 1999, down from 5,551, or nearly 19 percent.

Cooperatives used 102,473 part-time and seasonal employees in 1999, up 10,674, or 11.6 percent, from 1998. Both marketing and farm supply cooperatives increased their use of part-time and seasonal employees.

In 1999, marketing cooperatives reported 73,934 part-time and seasonal employees, or 72.1 percent of the total. Number per cooperative averaged more than 42. Fruit and vegetable and grain cooperatives, with 55,920, accounted for 75.6 percent. Farm supply cooperatives had 20,774 part-time and seasonal employees, an average of 16.

Most types of marketing cooperatives operated with more employees than did farm supply cooperatives. For example, livestock and poultry cooperatives averaged more than 368 employees (figure 6).

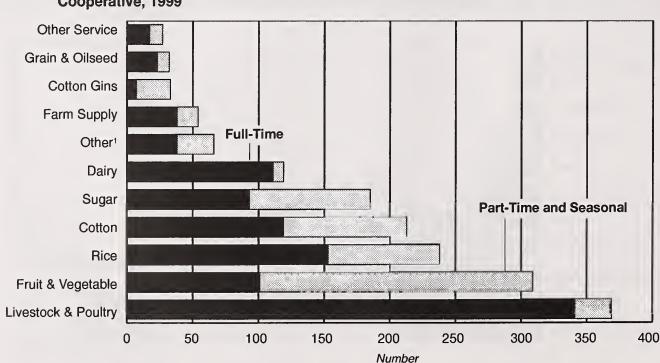


Figure 6— Average Number of Full-Time and Part-Time and Seasonal Employees, by Type of Cooperative, 1999

¹ Includes dry bean and pea, nut, tobacco, wool and mohair, fishery, and other miscellaneous marketing cooperatives.

Total Labor Expense

One of the largest expense items of any business is wages and benefits. Cooperatives are no exception. Hiring employees full-time or part-time and seasonally involves decisions on the number of employees and levels of salaries and wages. Other employee-related expenses include associated payroll taxes, health and life insurance, etc.

The average total labor expense per cooperative for those reporting in both 1998 and 1999 is shown in table 5. Average total labor expense (including director fees) is shown by type of cooperative and, in some cases, by asset group. This information can be used for comparing the average total labor expense of individual cooperatives of similar type and size. For those where no size grouping is shown, labor expense may not be a good barometer because of the mix of sizes included in the group.

Overall, total labor expense for the cooperatives reporting total wages and benefits both years was up 3.1 percent. Average total labor expense varied from 1998 to 1999 (table 5). The change ranged from a 15.6-percent decrease for rice cooperatives to an increase of 30.5 percent for miscellaneous marketing cooperatives. As expected, average total labor expense increased as size of cooperative increased, especially for dairy, fruit and vegetable and cotton gins. Average total labor expense for cooperatives involved in processing or manufacturing activities would be expected to be high.

Total Sales Per Dollar of Labor Expense

Labor productivity can be measured by examining the relationship between total sales and total labor expense. Table 6 shows total sales per dollar of total labor expense by type and size of cooperative, where applicable.

Total sales per dollar of total labor expense is relatively high for cooperatives involved in bargaining (dairy) or operating auctions (tobacco and livestock). In these situations, total labor requirements are low and sales are high. Surveyed cooperatives reported on the value of the product for which they bargained or which they auctioned off.

Dairy cooperatives with assets of \$500,000 to \$1 million accounted for the highest sales per dollar of labor expense, \$166.20 (table 6). Other service cooperatives with assets in the same range had the lowest sales per dollar of labor expense, \$2.48.

Total sales per dollar of labor expense varied less as cooperative size increased for grain and oilseed and farm supply cooperatives than it did for dairy and fruit and vegetable cooperatives. Dairy cooperatives ranged from \$23.53 to \$166.20; fruit and vegetable cooperatives from \$7.77 to \$49.20; grain and oilseed cooperatives from \$19.25 to \$30.24; and farm supply cooperatives ranged from \$8.54 to \$12.04.

Cooperative leaders may want to calculate their total sales per dollar of total labor expense and compare it with the appropriate figure in table 6 to see how well their cooperative is performing.

Business Size

Most farmer cooperatives, as measured by annual gross business volume, are relatively small and serve local areas. Several are actively seeking regional, national, and even international markets to increase business volume. These larger cooperatives account for much of cooperatives' business volume.

The increased size comes, in large part, from mergers, consolidations, and acquisitions. Data used were not adjusted for changes in price levels, and some size changes resulted from inflation.

In 1999, 77.4 percent of all farmer cooperatives reported a business volume of less than \$15 million. However, they accounted for only 10.2 percent of the total gross dollar volume, up slightly from 9.9 percent in 1998 (table 7 and figure 7). Only 2.2 percent of farmer cooperatives reported a business volume of at least \$200 million, but they accounted for 64.7 percent of the total sales, up from 63.1 percent in 1998. Cooperatives with a business volume in the range of \$15 million to \$200 million in 1999 accounted for a smaller share of all cooperatives' total gross dollar volume. In 1999, they accounted for 25.1 percent compared with 27.2 percent in 1998.

Business Volume

Total gross business volume of the 3,466 marketing, farm supply, and related-service cooperatives for 1999 was \$115.3 billion (table 8), down 4.7 percent from \$121 billion in 1998. Cooperatives' gross business volume peaked at \$128.1 billion in 1996.

Total net business volume of farmer cooperatives in 1999 was \$99.1 billion -- \$72 billion from farm products marketed, \$23.2 billion from farm supply sales, and \$3.9 billion from services performed and from other income sources. The total net figure, excluding inter-cooperative business, was down from \$104.7 billion in 1998. Cooperatives' net business volume reached a high of \$106.7 billion in 1997. However, adjusting for price change, net business volume actual-

Table 5—Average total labor expense for cooperatives reporting, by selected type and size, 1998-99

| Type of co-op | Average total | labor expense ¹ | |
|-----------------------------|---------------------|----------------------------|---------------|
| and asset group (Mil. Dol.) | 1998 | 1999 | Change |
| | \$ | 1,000 | Percent |
| Dry bean and pea | 2,274.1 | 2,392.5 | 5.2 |
| Cotton | 5,469.9 | 4,783.2 | -12.6 |
| Dairy | 3,594.4 | 3,809.5 | 6.0 |
| Less than 0.5 | 28.7 | 29.4 | 2.2 |
| 0.599 | 117.8 | 117.1 | -0.6 |
| 1.0 - 2.49 | 180.6 | 186.0 | 3.0 |
| 2.5 - 24.99 | 1,087.1 | 1,163.5 | 7.0 |
| 25.0 and more | 18,898.6 | 20,021.9 | 5.9 |
| Fruit and vegetable | 5,177.0 | 5,390.3 | 4.1 |
| Less than 0.5 | 94.1 | 100.4 | 6.7 |
| 0.599 | 279.5 | 272.9 | -2.4 |
| 1.0 - 2.49 | 783.7 | 873.0 | 11.4 |
| 2.5 - 24.99 | 2,207.3 | 2,077.8 | -5.9 |
| 25.0 and more | 18,509.1 | 19,541.6 | 5.6 |
| Fruit and vegetable | 5,177.0 | 5,390.3 | 4.1 |
| Fresh only | 1,866.5 | 1,899.4 | 1.8 |
| Processed only | 23,840.7 | 25,108.2 | 5.3 |
| Fresh and processed | 6,375.8 | 6,617.8 | 3.8 |
| Grain and oilseed | 872.0 | 897.1 | 2.9 |
| Less than 0.5 | 114.4 | 115.0 | 0.5 |
| 1.0 - 2.49 | 218.6 | 227.2 | 3.9 |
| 2.5 - 24.99 | 899.2 | 936.1 | 4.1 |
| 25.0 and more | 4,571.9 | 4,529.6 | -0.9 |
| Livestock | 1,124.0 | 1,197.2 | 6.5 |
| Vut | 12,873.6 | 14,495.3 | 12.6 |
| Poultry | 85,246.7 | 99,479.5 | 16.7 |
| Rice | 6,416.3 | 5,412.5 | -15.6 |
| Sugar | 28,697.8 | 30,336.9 | 5.7 |
| Tobacco | 159.4 | 164.3 | 3.1 |
| Fishery | 2,516.1 | 2,533.2 | 0.7 |
| Miscellaneous marketing | 886.7 | 1,157.2 | 30.5 |
| Farm supply | 1,569.2 | 1,628.5 | 3.8 |
| Less than 0.5 | 77.5 | 76.3 | -1.6 |
| 0.599 | 176.9 | 181.2 | 2.4 |
| 1.0 - 2.49 | 336.0 | 344.5 | 2.6 |
| 2.5 - 24.99 | | | 3.2 |
| 25.0 and more | 1,333.5 24,615.2 | 1,376.0 25,763.5 | 4.7 |
| Cotton gin | 429.1 | 420.1 | -2.1 |
| | | | |
| Less than 0.5 | 126.2 | 110.8 | -12.2 10.7 |
| 0.599 | 204.4 | 182.5 | -10.7 |
| 1.0 - 2.49 2.5 and more | 348.0 815.2 | 337.5 819.5 | -3.0 0.5 |
| | | | |
| Service | 1,697.6 | 1,708.9 | 0.7 |
| Less than 2.5 | 616.6 | 686.1 | 11.3 |
| 2.5 and more | 1,494.3 | 1,520.2 | 1.7 |

¹ Includes wages and salaries, payroll taxes, employee benefits, and director fees.

Table 6— Total sales per dollar of total labor expense for cooperatives reporting, by selected type and size, 1999

| Type of on on | Sales per \$1 labor | Type of on on | Sales per |
|-------------------------------|------------------------|----------------------------------|-----------------------------------|
| Type of co-op and asset group | expense ¹ | Type of co-op and asset group | \$1 labor expense ¹ |
| | · | | |
| Million Dollars | Dollars | Million Dollars | Dollars |
| Dry bean and pea | 14.70 | Livestock | 58.91 |
| Cotton | 40.35 | Nut | 8.76 |
| | | Poultry | 6.59 |
| Dairy | 28.83 | Rice | 12.20 |
| Less than 0.5 | 125.42 | Sugar | 9.17 |
| 0.599 | 166.20 | Tobacco | 38.28 |
| 1.0 - 2.49 | 66.65 | Wool | 16.24 |
| 2.5 - 24.99 | 76.67 | Fishery | 8.05 |
| 25.0 and more | 23.53 | Misc. Marketing | 5.15 |
| Fruit and vegetable | 9.54 | Farm supply | 9.86 |
| Less than 0.5 | 49.20 | Less than 0.5 | 12.04 |
| 0.599 | 31.85 | 0.599 | 8.54 |
| 1.0 - 2.49 | 32.87 | 1.0 - 2.49 | 10.19 |
| 2.5 - 24.99 | 11.81 | 2.5 - 24.99 | 9.76 |
| 25.0 and more | 7.77 | 25.0 and more | 9.92 |
| Fruit and vegetable | 9.54 | Cotton gin | 7.60 |
| Fresh only | 13.37 | Less than 0.5 | 4.05 |
| Processed only | 7.68 | 0.599 | 6.06 |
| Fresh and processed | 8.37 | 1.0 - 2.49 | 8.15 |
| | | 2.5 and more | 7.71 |
| Grain and oilseed | 20.56 | | |
| Less than 0.5 | 30.24 | Other service | 2.85 |
| 0.599 | 19.25 | Less than 0.5 | 2.99 |
| 1.0 - 2.49 | 26.28 | 0.599 | 2.48 |
| 2.5 - 24.99 | 20.11 | 1.0 - 2.49 | 2.62 |
| 25.0 and more | 20.84 | 2.5 and more | 2.88 |

¹ Labor expense includes wages and salaries, payroll taxes, employee benefits, and director fees. Sales includes receipts from marketings, farm supplies, and services, plus other income. Values considered not to be representative of each group were not included.

ly increased 4 percent,² due to both lower commodity prices and lower prices paid for production items in 1999.

Gross dollar volume of farm products marketed by cooperatives decreased 4.8 percent, from \$84.5 billion in 1998 to \$80.5 billion in 1999, due mainly to a 14.2-percent decrease in grain and oilseed marketings. The net volume of farm products marketed was \$72 billion, or 72.7 percent of the total net volume of all cooperatives, down 6.1 percent from \$76.6 billion in 1998.

Figure 8 illustrates the leading products marketed by cooperatives based on net marketing business volume. Dairy (milk and milk products) led with 36.1 percent, followed by grains and oilseeds (excluding cottonseed) with 23.8 percent, and fruits and vegetables with 12.9 percent. The proportions of milk and milk products and fruit and vegetables were up compared with 1998, because of a significant drop in cooperatives' grain business volume in 1999.

Gross volume of all farm supplies handled by cooperatives was \$30.9 billion, down 6.3 percent from \$33 billion in 1998. Net farm supply volume of nearly

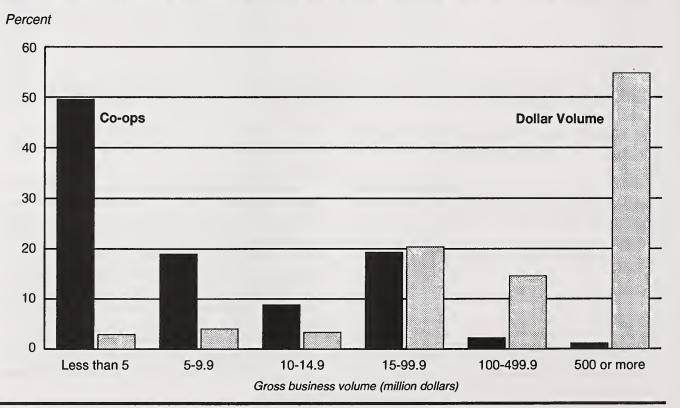
² Deflated 1999 cooperative business volume was \$103 billion, up 4 percent from the actual \$99.1 billion in 1999. The \$103 billion was derived by deflating farm products marketed by the index of prices received for all farm products and farm supplies (inputs) and service income by the index of prices paid by farmers for all production items adjusted for 1998 = 100.

Table 7-- Farmer cooperatives and memberships, by gross business volume, 19991

| Volume group | Coc | peratives | Dollar | volume | Memberships ³ | |
|--------------------|--------|------------------|--------------------|------------------|--------------------------|------------------|
| (mil. dol.) | Number | Percent of total | Gross² (mil. dol.) | Percent of total | Number (1,000) | Percent of total |
| Less than \$5.0 | 1,719 | 49.6 | 3,345 | 2.9 | 724 | 22.8 |
| 5 - 9.9 | 657 | 19.0 | 4,666 | 4.0 | 414 | 13.1 |
| 10 - 14.9 | 306 | 8.8 | 3,748 | 3.3 | 277 | 8.7 |
| 15 - 24.9 | 281 | 8.1 | 5,415 | 4.7 | 257 | 8.1 |
| 25 - 49.9 | 262 | 7.5 | 9,178 | 8.0 | 341 | 10.8 |
| 50 - 99.9 | 129 | 3.7 | 8,878 | 7.7 | 282 | 8.9 |
| 100 - 199.9 | 37 | 1.1 | 5,429 | 4.7 | 64 | 2.0 |
| 200 - 499.9 | 38 | 1.1 | 11,460 | 9.9 | 185 | 5.8 |
| 500 - 999.9 | 20 | 0.6 | 13,211 | 11.5 | 133 | 4.2 |
| 1,000 and more | 17 | 0.5 | 49,962 | 43.3 | 496 | 15.6 |
| Total ⁴ | 3,466 | 100.0 | 115,291 | 100.0 | 3,173 | 100.0 |

Business volume includes revenues from marketing plus the value of products bargained for or handled on a commission basis, supply sales, service receipts, and other income.

Figure 7— Distribution of Farmer Cooperatives and Gross Business Volume, by Size, 1999



² Includes intercooperative business volume.

³ Includes number of farmers, ranchers, and fishermen eligible to vote for directors. Does not include memberships held by other cooperatives, such as local cooperative memberships in regional cooperatives.

⁴ Totals may not add due to rounding.

Table 8— Cooperatives' gross and net business volumes by commodity, 1999 1

| Commodity | Gross v | olume | Net volu | ıme |
|---|-----------------|---------|-----------------|---------|
| | Million dollars | Percent | Million dollars | Percent |
| Products marketed: | | | | |
| Beans and peas (dry edible) | 174.9 | 0.2 | 174.9 | 0.2 |
| Cotton | 2,175.1 | 1.9 | 2,083.4 | 2.1 |
| Dairy | 28,461.1 | 24.7 | 25,999.1 | 26.3 |
| Fruits and vegetables | 10,103.2 | 8.8 | 9,285.6 | 9.4 |
| Grains and oilseeds, | | | | |
| excluding cottonseed | 21,748.9 | 18.9 | 17,113.1 | 17.3 |
| Livestock | 7,371.1 | 6.4 | 7,318.9 | 7.4 |
| Nuts | 899.1 | 0.8 | 899.1 | 0.9 |
| Poultry ³ | 2,225.9 | 1.9 | 2,225.9 | 2.3 |
| Rice | 911.7 | 0.8 | 911.7 | 0.9 |
| Sugar | 2,691.4 | 2.3 | 2,540.0 | 2.6 |
| Tobacco | 278.4 | 0.2 | 278.4 | 0.3 |
| Wool and mohair | 9.1 | (2) | 6.4 | (2) |
| Miscellaneous ⁴ | 3,456.3 | 3.0 | 3,145.5 | 3.2 |
| Total farm products | 80,506.3 | 69.8 | 71,981.9 | 72.7 |
| Supplies purchased: | | | | |
| Crop protectants | 3,756.5 | 3.3 | 3,018.3 | 3.1 |
| Feed | 6,383.8 | 5.5 | 4,725.6 | 4.8 |
| ertilizer | 7,251.8 | 6.3 | 4,758.6 | 4.8 |
| Petroleum | 8,142.3 | 7.1 | 6,259.8 | 6.3 |
| Seed | 1,072.0 | 0.9 | 752.1 | 0.8 |
| Other supplies ⁵ | 4,272.8 | 3.7 | 3,662.9 | 3.7 |
| Total farm supplies | 30,879.2 | 26.8 | 23,177.3 | 23.4 |
| Services provided: Trucking, cotton ginning, storage, grinding, locker plants, misc. ⁶ | 3,905.1 | 3.4 | 3,905.1 | 3.9 |
| Total business | 115,290.6 | 100.0 | 99,064.3 | 100.0 |

¹ Gross includes and net excludes inter-cooperative business. Totals may not add due to rounding.

\$23.2 billion, down 5.6 percent from \$24.6 billion, accounted for 23.4 percent of the total net business volume.

The leading farm production supplies handled by cooperatives in terms of net business volume were petroleum, 27 percent; fertilizer, 20.5; and feed, 20.4 percent (figure 9). While sales of "other" supplies and seed were up in 1999, feed, fertilizer, petroleum and crop protectants were down.

Receipts for services provided by marketing, farm supply, and related-service cooperatives, plus

other income, were up 12.4 percent to \$3.9 billion. Service receipts and other income represented 3.9 percent of total net business volume.

Table 9 shows gross and net business volume by State. Sales were allocated to the States in which the product marketed was originated and the farm supplies were sold. Minnesota was the leading State in total gross and net business volume, with \$11.5 billion and \$9.3 billion, respectively. Iowa was second in gross business (\$9.7 billion) and third in net business volume (\$7.9 billion). Wisconsin ranked second in net business volume (\$8 billion).

² Less than 0.05 percent.

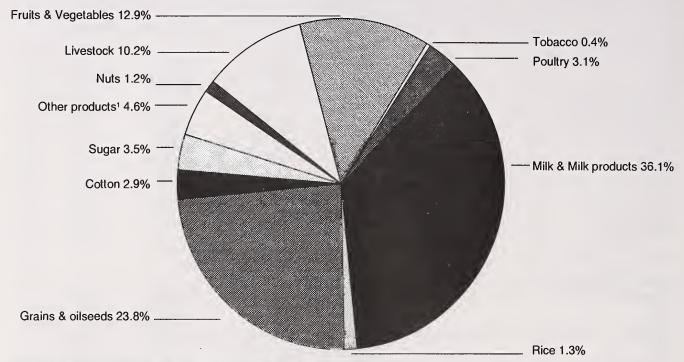
³ Includes eggs, turkeys, ratite, squab, and related products.

Includes coffee, fish, forest products, hay, hops, seed marketed for growers, nursery stock, other farm products not separately classified, and sales of farm products not received directly from member-patrons. Also includes manufactured food products and resale items marketed by cooperatives.

Includes building materials, containers and packaging supplies, farm machinery and equipment, meats and groceries, automotive supplies, hardware, chicks, and other supplies not separately classified.

⁶ Charges for services related to marketing or purchasing not included in the volume reported for those activities, plus other income.

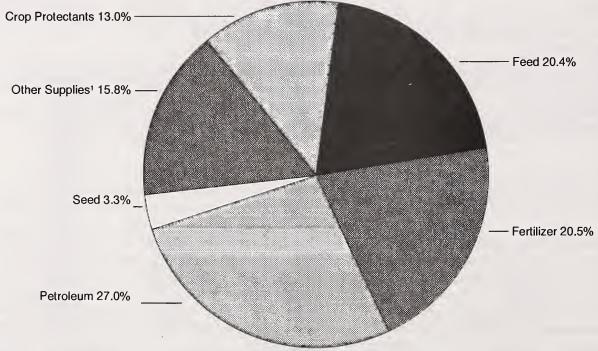
Figure 8— Relative Importance of Farm Products Marketed by Cooperatives, 1999



Percentage based on a total net marketing business volume of \$72 billion.

¹ Includes dry beans and peas, wool and mohair, fish, and other miscellaneous marketings.

Figure 9— Relative Importance of Farm Supplies Handled by Cooperatives, 1999



Percentage based on a net farm supply business volume of \$23.2 billion.

Includes building materials: tires, batteries and accessories; equipment; animal health products; pet food; semen; hardware; food; clothing; etc.

Table 9— Cooperatives' business volume¹, by commodity and State, 1999²

| | Busin | ness volume | | Business volume | |
|----------------------|---------------|-------------|----------------------|------------------|--------------------|
| State | Gross | Net | State | Gross | Net |
| | 1,00 | 00 dollars | | 1,00 | 00 dollars |
| PRODUCTS MA | RKETED: | | FRUITS AND VEG | ETABLES (Continu | ed) |
| | | | Idaho | 325,974 | 325,974 |
| BEANS AND PEA | S. DRY EDIBLE | | Maine | 7,608 | 7,608 |
| California | 28,880 | 28,880 | Massachusetts | 504,928 | 504,928 |
| North Dakota | 34,220 | 34,220 | Michigan | 754,320 | 608,765 |
| Other States | 111,811 | 111,811 | Minnesota | 1,680 | 1,680 |
| | | | New Jersey | 192,405 | 192,405 |
| Jnited States | 174,910 | 174,910 | New York | 596,669 | 492,360 |
| | | | North Carolina | 31,567 | 30,411 |
| COTTON | | | North Dakota | 13,280 | 13,280 |
| California | 338,669 | 301,339 | Ohio | 5,797 | 5,797 |
| Mississippi | 344,347 | 335,916 | Oregon | 441,857 | 437,449 |
| Texas | 643,255 | 603,575 | Pennsylvania | 360,796 | 345,989 |
| Other States | 848,669 | 842,516 | Texas | 49,526 | 49,526 |
| Foreign ³ | 164 | 90 | Washington | 1,069,619 | 1,052,079 |
| Jnited States | 2,175,104 | 2,083,436 | Other States | 679,937 | 640,424 |
| Jilled States | 2,173,104 | 2,000,400 | Foreign ³ | 63,306 | 63,306 |
| DAIRY | | | | | |
| California | 2,391,308 | 2,227,535 | United States | 10,103,179 | 9,285,557 |
| | 1,556,857 | | | | |
| llinois | | 1,332,245 | GRAINS AND OIL | SEEDS, EXCLUDIN | IG COTTONSE |
| owa | 1,479,705 | 1,339,633 | California | 17,886 | 17,886 |
| Massachusetts | 61,851 | 59,296 | Colorado | 245,902 | 219,298 |
| Minnesota | 3,538,065 | 3,077,872 | Idaho | 74,986 | 49,333 |
| New Mexico | 445,266 | 445,261 | Illinois | 1,937,955 | 1,796,586 |
| lew York | 1,919,806 | 1,595,244 | Indiana | 540,602 | 520,887 |
| North Dakota | 299,275 | 269,538 | Iowa | 3,246,310 | 2,706,494 |
| Ohio | 171,496 | 167,011 | Kansas | 2,428,666 | 1,863,224 |
| Oregon | 368,274 | 365,447 | Michigan | 93,916 | 87,265 |
| Pennsylvania | 417,285 | 384,182 | Minnesota | 3,028,311 | 2,162,165 |
| Texas | 778,184 | 778,134 | Mississippi | 99,614 | 97,834 |
| /irginia | 384,041 | 351,796 | Missouri | 900,105 | 539,806 |
| Visconsin | 6,016,152 | 5,375,842 | Montana | 294,975 | 175,777 |
| Other States | 8,550,276 | 8,155,556 | Nebraska | 2,382,799 | 1,796,787 |
| Foreign ³ | 83,300 | 74,554 | North Dakota | 1,531,751 | 1,163,718 |
| Inited States | 28,461,141 | 25 000 144 | Ohio | 793,111 | 770,065 |
| Jnited States | 20,401,141 | 25,999,144 | Oklahoma | 472,981 | 330,938 |
| DUITE AND VEC | ETADLEO | | | | |
| RUITS AND VEG | | 000.044 | South Dakota | 1,156,173 | 953,379 436,886 |
| rizona | 329,596 | 269,241 | Texas | 689,855 | · |
| Arkansas | 902 | 902 | Washington | 487,736 | 430,194 |
| California | 3,474,530 | 3,148,643 | Other States | 1,113,111 | 880,156 |
| Colorado | 20,239 | 20,239 | Foreign ³ | 212,139 | 114,372 |
| Florida | 1,166,016 | 1,061,925 | United States | 21,748,886 | 17,113,050 |
| Hawaii | 12,626 | 12,626 | | , | ,, |

Table 9— Cooperatives' business volume¹, by commodity and State, 1999² (continued)

| | Busin | ess volume | | Business volume | |
|----------------------|-----------|------------|----------------------|-----------------|-----------|
| State | Gross | Net | State | Gross | Net |
| | 1,00 | 0 dollars | | 1,00 | 0 dollars |
| LIVESTOCK | | | SUGAR | | |
| Alabama | 58,490 | 58,490 | Idaho | 474,175 | 474,175 |
| Hawaii | 17,490 | 17,490 | Louisiana | 353,946 | 202,547 |
| daho | 81,420 | 81,420 | Michigan | 103,740 | 103,740 |
| linois | 473,529 | 473,438 | Minnesota | 728,081 | 728,081 |
| ndiana | 115,107 | 115,098 | Montana | 61,962 | 61,962 |
| Kentucky | 117,388 | 117,388 | Wyoming | 41,178 | 41,178 |
| Mississippi | 52,320 | 52,320 | Other States | 922,995 | 922,995 |
| /lissouri | 890,096 | 890,096 | Foreign ³ | 5,314 | 5,314 |
| North Dakota | 95,529 | 95,529 | | | |
| Ohio | 460,160 | 460,160 | United States | 2,691,391 | 2,539,992 |
| /irginia | 17,666 | 17,666 | | | |
| Vest Virginia | 3,245 | 3,245 | TOBACCO | | |
| Visconsin | 526,085 | 526,077 | Kentucky | 133,615 | 133,615 |
| Other States | 4,462,191 | 4,410,063 | North Carolina | 109,145 | 109,145 |
| oreign ³ | 376 | 376 | Tennessee | 27,550 | 27,550 |
| oreign | 370 | | Virginia | 4,559 | 4,559 |
| Inited States | 7,371,091 | 7,318,854 | Other States | 3,554 | 3,554 |
| Jnited States | 7,371,091 | 7,310,004 | United States | 278,422 | 278,422 |
| NUTS | | | | | ŕ |
| California | 602,102 | 602,102 | WOOL AND MOHA | AIR . | |
| Other States | 297,008 | 297,008 | Idaho | 11 | 11 |
| Inited States | 899,111 | 899,111 | Montana | 224 | 224 |
| mileu States | 099,111 | 099,111 | North Dakota | 10 | 10 |
| POULTRY 4 | | | Ohio | 678 | 235 |
| California | 37,256 | 37,256 | Pennsylvania | 112 | 112 |
| | 114,732 | 114,732 | Utah | 692 | 692 |
| Jtah Other States | | 2,073,892 | Virginia | 26 | 26 |
| Julei States | 2,073,892 | 2,013,082 | West Virginia | 135 | 135 |
| Jnited States | 2,225,880 | 2,225,880 | Wyoming | 157 | 157 |
| | | | Other States | 6,989 | 4,662 |
| RICE | | | Foreign ³ | 87 | 87 |
| California | 217,711 | 217,711 | United States | 9,121 | 6,350 |
| .ouisiana | 21,179 | 21,179 | United States | 9,121 | 0,000 |
| exas | 60,682 | 60,682 | MISCELLANEOUS | MADKETING5 | |
| Other States | 612,160 | 612,160 | | 14,119 | 14,119 |
| Inited States | 011 720 | 011 700 | Alaska | 91,664 | 91,664 |
| Inited States | 911,732 | 911,732 | California | | |
| | | | Florida | 18,231 | 18,231 |
| | | | Georgia | 6,050 | 6,050 |
| | | | Hawaii | 26,572 | 26,572 |
| | | | Maine | 31,859 | 31,859 |
| | | | Minnesota | 920,260 | 810,166 |

Table 9— Cooperatives' business volume¹, by commodity and State, 1999² (continued)

| | Busin | ess volume | | Busin | ess volume |
|----------------------|-----------------------|------------|----------------------|---------------|----------------|
| State | Gross | Net | State | Gross | Net |
| | 1,00 | 0 dollars | | 1,00 | 00 dollars |
| MISCELLANEOUS | MARKETING (Cor | ntinued) | TOTAL FARM PR | ODUCTS MARKET | ED (Continued) |
| /lississippi | 137,475 | 120,447 | Tennessee | 151,720 | 138,347 |
| lorth Dakota | 197,694 | 197,694 | Texas | 2,961,504 | 2,615,597 |
| /ashington | 87,543 | 74,133 | Utah | 210,790 | 195,101 |
| ther States | 1,898,039 | 1,728,164 | Vermont | 416,484 | 408,176 |
| oreign ³ | 26,813 | 26,402 | Virginia | 469,349 | 437,104 |
| | 0.450.040 | 0.445.504 | Washington | 2,701,409 | 2,610,720 |
| nited States | 3,456,319 | 3,145,501 | West Virginia | 42,768 | 40,134 |
| OT41 E4 D14 DD4 | NO. 10. TO 11. DIVETI | | Wisconsin | 7,156,158 | 6,481,057 |
| | DDUCTS MARKETE | | Wyoming | 63,376 | 62,901 |
| abama | 706,811 | 706,785 | Other States | 279,961 | 220,195 |
| aska | 14,495 | 14,495 | Foreign ³ | 391,500 | 284,501 |
| rizona | 949,078 | 883,380 | _ | | |
| kansas | 1,206,982 | 1,194,894 | United States | 80,506,288 | 71,981,941 |
| alifornia | 7,328,083 | 6,799,736 | | | |
| olorado | 497,514 | 470,911 | FARM SUPPLIE | S PROVIDED: | |
| orida | 2,114,760 | 1,968,093 | | | |
| eorgia | 1,387,585 | 1,340,123 | CROP PROTECTA | | |
| awaii | 95,283 | 92,077 | Alabama | 76,511 | 28,434 |
| aho | 1,134,005 | 1,108,352 | Arkansas | 99,802 | 83,236 |
| nois | 4,028,635 | 3,654,165 | California | 28,938 | 28,755 |
| diana | 1,108,416 | 1,008,123 | Colorado | 44,013 | 41,232 |
| wa | 6,073,909 | 5,354,438 | Florida | 15,316 | 11,805 |
| ınsas | 4,093,908 | 3,528,022 | Georgia | 193,722 | 188,963 |
| entucky | 366,517 | 364,617 | Idaho | 28,636 | 20,144 |
| uisiana | 651,920 | 438,089 | Illinois | 476,224 | 301,045 |
| aine | 98,113 | 95,839 | Indiana | 168,290 | 160,106 |
| aryland | 194,035 | 169,140 | Iowa | 481,081 | 380,386 |
| assachusetts | 570,759 | 568,203 | Kansas | 133,663 | 118,893 |
| chigan | 1,707,249 | 1,539,374 | Kentucky | 59,628 | 53,475 |
| nnesota | 8,571,499 | 7,082,996 | Louisiana | 26,174 | 22,300 |
| ssissippi | 710,559 | 682,767 | Maryland | 16,928 | 15,933 |
| ssouri | 4,003,112 | 3,614,577 | Massachusetts | 2,339 | 2,339 |
| ontana | 428,821 | 309,623 | Michigan | 30,681 | 29,834 |
| ebraska | 3,863,529 | 3,266,602 | Minnesota | 323,664 | 263,001 |
| ew Jersey | 222,141 | 221,001 | Mississippi | 33,150 | 28,498 |
| ew Mexico | 536,011 | 535,769 | Missouri | 112,255 | 85,933 |
| ew York | 2,872,867 | 2,441,145 | Montana | 40,086 | 31,603 |
| orth Carolina | 579,016 | 536,358 | Nebraska | 212,021 | 177,112 |
| orth Dakota | 2,593,092 | 2,195,322 | New Jersey | 4,801 | 4,801 |
| nio | 1,677,851 | 1,622,999 | New York | 35,419 | 34,507 |
| dahoma | 1,152,622 | 1,007,188 | North Dakota | 147,742 | 120,103 |
| egon | 1,281,292 | 1,175,412 | Ohio | 100,210 | 100,004 |
| ennsylvania | 878,293 | 830,383 | Oklahoma | 24,780 | 23,688 |
| outh Carolina | 112,160 | 108,589 | | 54,397 | 47,509 |
| outh Dakota | | | Oregon | | |
| Julii Danola | 1,850,348 | 1,558,521 | Pennsylvania | 31,100 | 31,100 |
| | | | South Dakota | 157,591 | 131,956 |

Continued

Table 9— Cooperatives' business volume¹, by commodity and State, 1999² (continued)

| | Busine | ss volume | | Busine | ss volume |
|---------------------------|-------------------|---|----------------------|---|---|
| State | Gross | Net | State | Gross | Net |
| | 1,000 | dollars | | 1,00 | 0 dollars |
| CROP PROTECTAN | NTS (Continued) | | FEED (Continued) | | |
| Tennessee | 120,347 | 65,042 | Virginia | 122,279 | 113,706 |
| Гехаѕ | 63,024 | 60,612 | Washington | 114,811 | 39,955 |
| Jtah | 11,213 | 11,035 | West Virginia | 18,851 | 17,202 |
| /irginia | 29,353 | 24,809 | Wisconsin | 462,008 | 289,175 |
| Vashington | 72,122 | 60,674 | Wyoming | 6,888 | 6,170 |
| Vest Virginia | 884 | 884 | Other States | 324,854 | 266,094 |
| Visconsin | 170,560 | 131,859 | Foreign ³ | 136,482 | 66,912 |
| Vyoming | 8,874 | 8,726 | 9 | | |
| Other States | 94,179 | 87,099 | United States | 6,383,838 | 4,725,594 |
| oreign ³ | 26,759 | 840 | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , |
| | | | FERTILIZER | | |
| Inited States | 3,756,479 | 3,018,275 | Alabama | 106,041 | 65,268 |
| | ,, | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Arkansas | 110,609 | 87,431 |
| EED | | | California | 105,663 | 94,500 |
| Mabama | 263,928 | 228,724 | Colorado | 113,784 | 93,730 |
| Arkansas | 103,677 | 79,012 | Florida | 132,638 | 44,237 |
| California | 157,821 | 107,580 | Georgia | 69,799 | 58,946 |
| Colorado | 55,732 | 41,067 | Idaho | 61,685 | 40,416 |
| lorida | 90,307 | 88,484 | Illinois | 742,559 | 415,740 |
| Georgia | 285,619 | 281,326 | Indiana | 263,891 | 209,884 |
| daho | 35,826 | 10,517 | lowa | 790,378 | 500,807 |
| linois | 250,515 | 188,676 | Kansas | 354,083 | 285,234 |
| ndiana | 101,665 | 85,891 | Kentucky | 130,979 | 105,667 |
| owa | 960,511 | 650,494 | Louisiana | 28,041 | 24,233 |
| ansas | 226,131 | 167,029 | Maryland | 27,252 | 25,638 |
| Centucky | 57,589 | 51,965 | Massachusetts | 3,360 | 3,360 |
| ouisiana | 41,692 | 27,049 | Michigan | 55,056 | 50,439 |
| laryland | 41,252 | 38,556 | Minnesota | 609,418 | 358,865 |
| lassachusetts | 18,707 | 18,707 | Mississippi | 57,198 | 47,900 |
| lichigan | 63,746 | 61,145 | Missouri | 323,851 | 225,478 |
| linnesota | 604,214 | 420,152 | Montana | 92,778 | 62,926 |
| finnesota fississippi | | 53,268 | Nebraska | 407,408 | 301,907 |
| ilississippi Ilissouri | 82,863 214.496 | | New Jersey | 6,422 | 6,422 |
| lontana | 214,496 18,857 | 158,005 18,450 | New York | 60,900 | 54,112 |
| | | | North Dakota | | 203,830 |
| lebraska | 234,824 | 158,613 14,469 | | 354,210 | 140,411 |
| lew Jersey | 14,588 | · · | Ohio | 203,347 | 95,680 |
| lew York | 129,218 | 121,263 | Oklahoma | 136,871 | |
| orth Dakota | 56,216 | 44,431 | Oregon | 114,014 | 90,085 |
| Phio | 120,657 | 119,631 | Pennsylvania | 44,002 | 43,857 |
| Oklahoma | 86,334 | 64,833 | South Dakota | 254,979 | 167,937 |
| Pregon | 126,407 | 37,526 | Tennessee | 218,588 | 105,624 |
| ennsylvania | 106,980 | 106,257 | Texas | 226,566 | 143,789 |
| outh Dakota | 218,976 | 179,752 | Utah | 28,442 | 26,883 |
| ennessee | 185,282 | 111,062 | Virginia | 78,629 | 74,311 |
| exas | 168,508 | 121,695 | Washington | 95,257 | 76,540 |
| Jtah | 74,524 | 70,754 | West Virginia | 11,553 | 9,359 |

Continued

Table 9— Cooperatives' business volume¹, by commodity and State, 1999² (continued)

| | Busine | ess volume | | Business volume | |
|----------------------|-----------|------------|----------------------|-----------------|-----------|
| State | Gross | Net | State | Gross | Net |
| | 1,00 | 0 dollars | | 1,000 dollars | |
| FERTILIZER (contin | ued) | | PETROLEUM (cont | inued) | |
| Wisconsin | 284,719 | 193,122 | Wisconsin | 551,439 | 484,625 |
| Wyoming | 26,225 | 21,814 | Wyoming | 114,149 | 104,007 |
| Other States | 156,703 | 140,832 | Other States | 95,742 | 91,813 |
| Foreign ³ | 363,930 | 61,392 | Foreign ³ | 91,774 | 60,790 |
| Jnited States | 7,251,827 | 4,758,603 | United States | 8,142,266 | 6,259,807 |
| PETROLEUM | | | SEED | | |
| Alabama | 5,394 | 4,665 | Alabama | 66,868 | 15,143 |
| Arkansas | 64,938 | 57,075 | Arkansas | 28,446 | 28,253 |
| California | 6,049 | 4,851 | California | 17,792 | 17,792 |
| Colorado | 240,186 | 179,988 | Colorado | 4,090 | 4,089 |
| -lorida | 6,965 | 6,790 | Florida | 19,855 | 15,910 |
| Georgia | 55,256 | 43,603 | Georgia | 6,367 | 5,856 |
| daho | 112,241 | 95,430 | Idaho | 20,703 | 6,181 |
| llinois | 508,820 | 417,297 | Illinois | 111,449 | 67,215 |
| ndiana | 373,357 | 279,410 | Indiana | 35,995 | 26,032 |
| owa | 734,837 | 522,885 | Iowa | 103,810 | 62,304 |
| Kansas | 899,544 | 321,019 | Kansas | 14,401 | 14,401 |
| Centucky | 134,477 | 85,481 | Kentucky | 30,616 | 28,830 |
| ouisiana | 9,364 | 8,544 | Louisiana | 9,498 | 9,370 |
| Maryland | 56,698 | 51,487 | Maryland | 9,878 | 9,240 |
| Massachusetts | 11,675 | 11,675 | Massachusetts | 1,100 | 1,100 |
| /lichigan | 91,825 | 80,083 | Michigan | 9,404 | 9,404 |
| Minnesota | 712,220 | 543,442 | Minnesota | 64,306 | 48,170 |
| /lississippi | 18,336 | 16,303 | Mississippi | 18,776 | 18,521 |
| /lissouri | 429,060 | 391,454 | Missouri | 91,694 | 35,630 |
| /lontana | 207,832 | 179,308 | Montana | 10,006 | 6,779 |
| lebraska | 471,912 | 376,582 | Nebraska | 20,752 | 15,912 |
| lew Jersey | 26,389 | 26,389 | New Jersey | 2,121 | 2,121 |
| lew York | 186,910 | 182,510 | New York | 17,128 | 17,128 |
| Iorth Dakota | 336,612 | 288,090 | North Dakota | 33,565 | 28,723 |
| Ohio | 110,336 | 97,568 | Ohio | 29,330 | 29,330 |
| Oklahoma | 150,965 | 109,539 | Oklahoma | 4,777 | 4,777 |
| Oregon | 168,271 | 151,795 | Oregon | 12,014 | 12,014 |
| Pennsylvania | 168,729 | 166,927 | Pennsylvania | 14,339 | 14,339 |
| South Dakota | 273,185 | 239,992 | South Dakota | 26,959 | 21,796 |
| ennessee | 137,210 | 98,379 | Tennessee | 68,588 | 37,777 |
| exas | 146,197 | 102,218 | Texas | 16,577 | 16,577 |
| Jtah | 57,289 | 47,187 | Utah | 3,201 | 3,144 |
| /irginia | 166,058 | 144,544 | Virginia | 26,501 | 25,097 |
| Vashington | 203,649 | 179,684 | Washington | 25,636 | 24,023 |
| Nest Virginia | 6,378 | 6,378 | West Virginia | 4,267 | 4,011 |

Continued

Table 9— Cooperatives' business volume¹, by commodity and State, 1999² (continued)

| | Busine | ss volume | | Business volume | | |
|----------------------|-----------|-----------|----------------------|-------------------|-----------|--|
| State | Gross | Net | State | Gross | Net | |
| | 1,000 | dollars | | 1,00 | O dollars | |
| SEED (Continued) | | | MISCELLANEOUS | SUPPLIES® (Contin | ued) | |
| Visconsin | 52,722 | 33,778 | Wisconsin | 249,551 | 242,808 | |
| Nyoming | 627 | 624 | Wyoming | 54,225 | 53,265 | |
| Other States | 32,229 | 30,182 | Other States | 207,871 | 189,785 | |
| Foreign ³ | 5,607 | 552 | Foreign ³ | 44,437 | 15,176 | |
| Jnited States | 1,071,992 | 752,122 | United States | 4,272,821 | 3,662,883 | |
| MISCELLANEOUS S | UPPLIES* | | TOTAL FARM SUF | PLIES | | |
| Mabama | 116,632 | 103,322 | Alabama | 635,375 | 445,556 | |
| Arkansas | 61,749 | 58,877 | Arkansas | 469,222 | 393,884 | |
| California | 99,876 | 76,767 | California | 416,139 | 330,245 | |
| Colorado | 69,273 | 59,225 | Colorado | 527,078 | 419,331 | |
| Florida | 170,667 | 166,225 | Florida | 435,748 | 333,451 | |
| Beorgia | 87,841 | 81,378 | Georgia | 698,605 | 660,072 | |
| daho | 40,883 | 38,234 | Idaho | 299,975 | 210,921 | |
| linois | 137,753 | 97,059 | Illinois | 2,227,319 | 1,487,032 | |
| ndiana | 80,034 | 68,397 | Indiana | 1,023,231 | 829,719 | |
| owa | 243,751 | 183,790 | Iowa | 3,314,367 | 2,300,666 | |
| Cansas | 114,718 | 86,875 | Kansas | 1,742,539 | 993,451 | |
| entucky | 84,764 | 73,832 | Kentucky | 498,052 | 399,250 | |
| ouisiana | 16,753 | 15,801 | Louisiana | 131,522 | 107,296 | |
| Maryland | 39,641 | 36,132 | Maryland | 191,650 | 176,986 | |
| Massachusetts | 13,266 | 13,222 | Massachusetts | 50,447 | 50,402 | |
| /lichigan | 106,022 | 102,041 | Michigan | 356,735 | 332,947 | |
| Minnesota | 262,306 | 222,648 | Minnesota | 2,576,129 | 1,856,279 | |
| /lississippi | 53,583 | 51,359 | Mississippi | 263,907 | 215,849 | |
| Missouri | 119,371 | 75,119 | Missouri | 1,290,727 | 971,618 | |
| Montana | 72,820 | 69,963 | Montana | 442,381 | 369,030 | |
| lebraska | 125,668 | 108,379 | Nebraska | 1,472,585 | 1,138,503 | |
| lew Jersey | 35,849 | 34,936 | New Jersey | 90,169 | 89,137 | |
| lew York | 156,367 | 152,157 | New York | 585,942 | 561,676 | |
| lorth Dakota | 116,651 | 109,274 | North Dakota | 1,044,995 | 794,451 | |
| Ohio | 88,828 | 82,051 | Ohio | 652,709 | 568,996 | |
| Oklahoma | 43,323 | 35,065 | Oklahoma | 447,050 | 333,582 | |
| Pregon | 163,777 | 159,685 | Oregon | 638,881 | 498,615 | |
| Pennsylvania | 149,560 | 149,152 | Pennsylvania | 514,709 | 511,630 | |
| South Dakota | 105,497 | 94,922 | South Dakota | 1,037,186 | 836,355 | |
| ennessee | 258,295 | 145,399 | Tennessee | 988,311 | 563,283 | |
| exas | 96,177 | 83,168 | Texas | 717,048 | 528,060 | |
| Jtah | 47,411 | 44,381 | Utah | 222,080 | 203,383 | |
| /irginia | 169,526 | 145,370 | Virginia | 592,347 | 527,837 | |
| Vashington | 158,201 | 127,739 | Washington | 669,676 | 508,614 | |
| Vest Virginia | 9,904 | 9,904 | Ĭ. | , | | |

Table 9— Cooperatives' business volume¹, by commodity and State, 1999² (continued)

| | Business volume | | | Busine | Business volume | |
|---------------------|--------------------|------------|----------------------|-------------|-----------------|--|
| State | Gross | Net | State | Gross | Net | |
| | 1,00 | 00 dollars | | 1,00 | 00 dollars | |
| TOTAL FARM SUF | PPLIES (Continued) | | TOTAL: (Continue | ed) | | |
| Vest Virginia | 51,837 | 47,739 | Hawaii | 122,525 | 103,807 | |
| Visconsin | 1,770,999 | 1,375,366 | Idaho | 1,446,412 | 1,331,705 | |
| Vyoming | 210,987 | 194,606 | Illinois | 6,430,795 | 5,316,036 | |
| Other States | 911,577 | 805,806 | Indiana | 2,225,018 | 1,931,213 | |
| oreign ³ | 668,988 | 205,662 | Iowa | 9,665,341 | 7,932,170 | |
| | | | Kansas | 5,973,848 | 4,658,873 | |
| Inited States | 30,879,223 | 23,177,285 | Kentucky | 873,968 | 773,265 | |
| | | | Louisiana | 802,249 | 564,193 | |
| ERVICES PROVI | | | Maine | 205,558 | 203,284 | |
| labama | 17,252 | 17,252 | Maryland | 391,835 | 352,277 | |
| rizona | 23,858 | 23,858 | Massachusetts | 630,330 | 627,730 | |
| rkansas | 54,421 | 54,421 | Michigan | 2,116,737 | 1,925,074 | |
| alifornia | 693,568 | 693,568 | Minnesota | 11,514,242 | 9,305,888 | |
| ieorgia | 6,337 | 6,337 | Mississippi | 1,025,276 | 949,425 | |
| lawaii | 8,248 | 8,248 | Missouri | 5,568,086 | 4,860,441 | |
| inois | 174,840 | 174,840 | Montana | 878,274 | 685,725 | |
| ouisiana | 18,807 | 18,807 | Nebraska | 5,474,400 | 4,543,391 | |
| lichigan | 52,753 | 52,753 | New Jersey | 315,157 | 312,984 | |
| innesota | 366,614 | 366,614 | New Mexico | 566,459 | 554,906 | |
| lississippi | 50,809 | 50,809 | New York | 3,691,278 | 3,235,290 | |
| ew Mexico | 3,467 | 3,467 | | 908,477 | 825,510 | |
| ew York | 232,470 | 232,470 | North Carolina | · · | | |
| orth Carolina | 24,438 | 24,438 | North Dakota | 3,689,653 | 3,041,338 | |
| orth Dakota | 51,565 | 51,565 | Ohio | 2,415,868 | 2,277,303 | |
| hio | 85,309 | 85,309 | Oklahoma | 1,645,397 | 1,386,496 | |
| klahoma | 45,725 | 45,725 | Oregon | 1,962,678 | 1,716,532 | |
| ennsylvania | 11,027 | 11,027 | Pennsylvania | 1,404,029 | 1,353,040 | |
| exas | 257,212 | 257,212 | South Carolina | 255,424 | 246,516 | |
| irginia | 31,746 | 31,746 | South Dakota | 2,943,710 | 2,451,052 | |
| /ashington | 205,828 | 205,828 | Tennessee | 1,168,383 | 729,982 | |
| /isconsin | 162,042 | 162,042 | Texas | 3,935,764 | 3,400,868 | |
| ther States | 1,326,757 | 1,326,757 | Utah | 495,847 | 461,461 | |
| | | | Vermont | 480,544 | 471,561 | |
| nited States | 3,905,094 | 3,905,094 | Virginia | 1,093,442 | 996,687 | |
| | | | Washington | 3,576,913 | 3,325,162 | |
| OTAL: | | | West Virginia | 95,435 | 88,703 | |
| labama | 1,359,438 | 1,169,594 | Wisconsin | 9,089,199 | 8,018,466 | |
| laska | 92,867 | 76,496 | Wyoming | 275,669 | 258,813 | |
| rizona | 1,002,570 | 927,983 | Other States | 101,652 | 96,004 | |
| rkansas | 1,730,624 | 1,643,198 | Foreign ³ | 1,060,487 | 490,163 | |
| alifornia | 8,437,790 | 7,823,548 | 11.0 | 115 200 605 | 99,064,320 | |
| olorado | 1,063,167 | 928,817 | U.S. | 115,290,605 | 99,004,320 | |
| onnecticut | 228,238 | 175,897 | | | | |
| elaware | 98,885 | 89,741 | | | | |
| lorida | 2,668,142 | 2,419,178 | | | | |
| ieorgia | 2,092,527 | 2,006,532 | | | | |

Table 9.

- Data covering operations of cooperatives whose business years ended in calendar 1999. Includes independent local cooperatives, federations, centralized regionals, and those with mixed organizational structures. Products marketed were allocated to the States in which they were originated and farm supply sales were allocated to the States in which they were sold; service volume and other income were allocated to the States of origin when services related to farm products marketed or to the State of destination when related to farm supplies sold.
- ² Gross business volume includes sales between cooperatives while net business volume excludes such sales. States listed had more than two cooperatives handling the commodity or farm supply or where disclosure was not a problem. Totals may not add due to rounding.
- ³ Includes value of farm products imported, farm supplies exported, services related to imported farm products or exported farm supplies, sales to domestic military installations, or sales of farm products not received directly from member-patrons.
- Includes eggs, turkeys, ratite, squab, and related products.
- 5 Includes forest products, hay, hops, nursery stock, fish, coffee, seed marketed for growers, and other farm products not separately classified. Also includes manufactured food products and resale items marketed by cooperatives.
- 6 Includes building supplies, containers and packaging supplies, farm machinery and equipment, animal health products, automotive supplies, food, hardware, chicks, and other supplies not separately classified.
- 7 Income from services related to marketing and purchasing activities not included in the volumes reported for these activities.

In 1999, Iowa was the leading State in both gross and net sales of farm supplies, with \$3.3 billion and \$2.3 billion, respectively. Minnesota was second.

Net Income

Total net income (adjusted for losses and before taxes) for all cooperatives in 1999 was \$1.3 billion, including inter-cooperative dividends and refunds (table 10). Cooperatives operating strictly on a pooling basis were excluded. Net income was down 23.8 percent from the \$1.7 billion in 1998. Patronage refunds received from other cooperatives, including CoBank, totaled \$383.5 million, down 33.1 percent from \$573 million in 1998.

Marketing cooperatives' total net income of \$871.1 million was down 14.4 percent from the \$1,017.5 million generated in 1998. The drop in net income was mainly due to decreased net income by dairy and grain cooperatives. However, grain and dairy cooperatives together, accounted for most (69 percent) of marketing cooperatives' net income and 45.3 percent of total net income (figure 10).

Total net income of farm supply cooperatives was \$352.5 million in 1999, down 39.1 percent from \$578.8 million in 1998. They accounted for 26.5 percent of cooperatives' total net income in 1999, compared with 33.2 percent in 1998. Income from their own operations, excluding patronage refunds from other cooperatives and CoBank, was \$183 million, down 39.3 percent from \$301.6 million in 1998.

Farmer cooperatives' net income from own operations in 1999 totaled \$944.5 million, down 19.2 percent from \$1,169.3 million. Nearly 28.9 percent, or \$383.5 million, of total net income (\$1,328.1 million) was generated by other cooperatives and CoBank, down 33.1 percent from \$573 in 1998. The proportion generated by other cooperatives in 1998 was 32.9 percent. Marketing cooperatives' net income from other cooperatives, including CoBank, totaled \$184.2 million and accounted for 21.1 percent of their total, down from \$269.3 million and 26.5 percent in 1998. Grain cooperatives' net income from other cooperatives totaled \$125.9 million, or 38.8 percent of their total, down from \$200.1 million, or 45.3 percent in 1998.

Income before adjusting for losses was \$1,612.2 million. Losses totaled \$284.1 million in 1999, down from \$379.9 million in 1998. Number of cooperatives with losses was down significantly, from 601 to 522. The decrease in losses for 1999 was mainly due to decreased losses by livestock and poultry cooperatives, from \$148.2 million in 1998 to \$9.9 million in 1999.

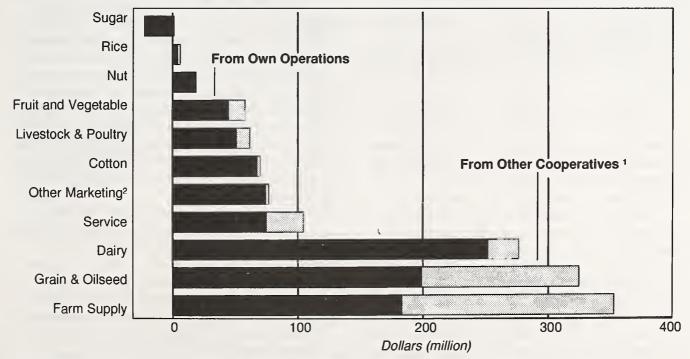
Marketing cooperative losses totaled \$153.6 million in 1999, compared with \$337.7 million in 1998. Related-service cooperative losses totaled \$6.4 million, compared with \$20.6 million. Losses among farm supply cooperatives were up significantly, from \$21.3 million in 1998 to \$124.1 million in 1999.

| Table 10— Farmer | cooperatives' | net income, | 1999 |
|------------------|---------------|-------------|------|
|------------------|---------------|-------------|------|

| Principal product(s) marketed and major function | Co-ops ¹ | Total net income | Income from own operations | Income from other co-ops ² |
|--|---------------------|------------------|----------------------------|---------------------------------------|
| | Number | | Million dollars | |
| Products marketed: | | | | |
| Cotton | 15 | 69.9 | 67.3 | 2.6 |
| Dairy | 221 | 276.6 | 251.6 | 25.0 |
| Fruits & vegetables | 231 | 57.9 | 44.5 | 13.4 |
| Grains and oilseeds, | | | | |
| excluding cottonseed | 896 | 324.5 | 198.6 | 125.9 |
| Livestock and poultry | 96 | 61.7 | 50.9 | 10.8 |
| Rice | 17 | 6.1 | 3.9 | 2.2 |
| Sugar | 48 | -21.1 | -22.1 | 1.0 |
| Other products ³ | 225 | 95.4 | 92.2 | 3.2 |
| Total marketing | 1,749 | 871.1 | 686.9 | 184.2 |
| Total farm supply | 1,313 | 352.5 | 183.0 | 169.5 |
| Total related-service | 404 | 104.5 | 74.7 | 29.8 |
| Combined total ⁴ | 3,466 | 1,328.1 | 944.5 | 383.5 |

¹ Includes number of cooperatives operating on a strictly pooling basis, but not their pool proceeds.

Figure 10— Net Income or Loss by Type of Cooperative, 1999



² Includes patronage refunds from CoBank.

³ Includes dry edible beans and peas, nuts, tobacco, wool, and miscellaneous products.

⁴ Totals may not add due to rounding.

Includes dividends and patronage refunds from other farmer cooperatives, and CoBank. Includes dry bean and pea, nut, tobacco, wool and mohair, fishery, and other miscellaneous marketing cooperatives.

Table 11— Combined balance sheet data for farmer cooperatives, 19991

| Principal product(s) marketed and major function | Co-ops | Total assets | Total liabilities | Net worth | |
|--|--------|--------------|-------------------|-----------|--|
| | Number | | Million dollars | | |
| Products marketed: | | | | | |
| Cotton | 15 | 909.7 | 519.7 | 390.0 | |
| Dairy | 221 | 7,771.9 | 4,815.6 | 2,956.3 | |
| Fruits & vegetables | 231 | 6,067.8 | 4,288.4 | 1,779.4 | |
| Grains and oilseeds, | | | | | |
| excluding cottonseed | 896 | 7,015.5 | 3,543.1 | 3,472.4 | |
| Livestock and poultry | 96 | 4,688.5 | 3,220.7 | 1,467.8 | |
| Rice | 17 | 554.7 | 300.2 | 254.5 | |
| Sugar | 48 | 2,224.8 | 1,321.4 | 903.4 | |
| Other products ² | 225 | 3,101.8 | 1,504.7 | 1,597.1 | |
| Total marketing | 1,749 | 32,334.7 | 19,513.9 | 12,820.9 | |
| Total farm supply | 1,313 | 14,435.7 | 7,532.4 | 6,903.3 | |
| Total related-service | 404 | 911.3 | 372.1 | 539.2 | |
| Combined total | 3,466 | 47,681.7 | 27,418.3 | 20,263.4 | |

¹ Totals may not add due to rounding.

Balance Sheet

Combined assets for all farmer cooperatives totaled nearly \$47.7 billion in 1999, up 2.4 percent from \$46.6 billion in 1998 (table 11). The increase in total assets was partly due to a 14.4-percent increase in investments in other cooperatives, from \$4.7 billion in 1998 to \$5.4 billion in 1999. Total assets of cooperatives, excluding inter-cooperative investments, was up 1.1 percent to \$42.3 billion, compared with \$41.9 billion in 1998.

Total liabilities was \$27.4 billion, up 3.1 percent from \$26.6 billion in 1998. Net worth, or member and patron equity, was \$20.3 billion, up 1.6 percent from \$20 billion in 1998. The proportion of total assets financed by member and patron equity decreased slightly, from 42.9 percent to 42.5 percent.

Net worth, or member and patron equity, for all marketing cooperatives totaled \$12.8 billion, up 1.3 percent from 1998. Marketing cooperatives accounted for 63.3 percent of farmer cooperatives' combined net worth, down slightly from 63.4 percent in 1998. The net worth figure for farm supply cooperatives was 34.1 percent of the total, up from 33.9 percent. For marketing cooperatives, the highest percentage of total assets represented by net worth shown in figure 11 (51.5 percent) was for those marketing primarily "other" products. The lowest, 29.3 percent, was for cooperatives

marketing primarily fruits and vegetables. Marketing and farm supply cooperatives had 39.7 percent and 47.8 percent, respectively, of their assets financed by net worth.

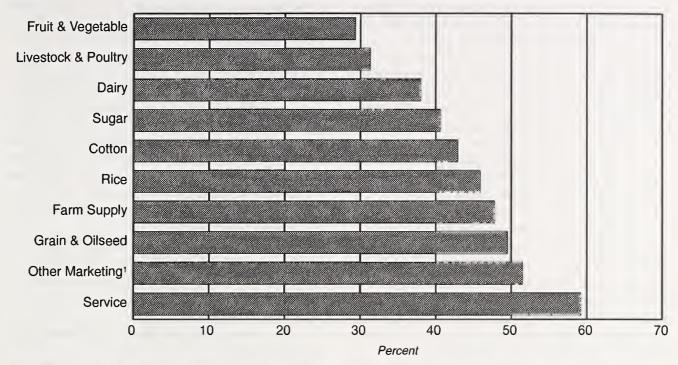
Of the \$47.7 billion in total assets, marketing cooperatives accounted for \$32.3 billion, up slightly (.9 percent) from 1998. Cooperatives primarily handling grains and oilseeds (excluding cottonseed) had total assets of \$7 billion in 1999, down 12.7 percent from \$8 billion in 1998. Among the marketing cooperatives, those with primarily grain also maintained the largest proportion of their assets as investments in other cooperatives in both 1999 (16.4 percent) and 1998 (15.5 percent). Dairy cooperatives had 15 percent of their assets invested in other cooperatives, up from 9.6 percent in 1998 (table 12).

Assets of marketing cooperatives, excluding investments in other cooperatives and CoBank, totaled \$29.2 billion, down 1.0 percent from \$29.5 billion in 1998.

Farm supply cooperatives had total assets of \$14.4 billion, compared with \$13.7 billion in 1998, up 5.7 percent. Excluding inter-cooperative investments, total assets was up 5.9 percent, from \$11.7 billion in 1998 to \$12.3 billion.

² Includes dry edible beans and peas, nuts, tobacco, wool, and miscellaneous products.

Figure 11— Percentage of Cooperatives' Assets Financed by Net Worth, by Type of Cooperative, 1999



¹ Includes dry bean and pea, nut, tobacco, wool and mohair, fishery, and other miscellaneous marketing cooperatives.

| Principal product(s) marketed and major function | Co-ops ² | Assets of own operations | Investments in other co-ops ³ | Total assets | Investments in other co-ops as percent of total |
|--|---------------------|--------------------------|--|-----------------|---|
| | Number | | Million dollars | | Percent |
| Products marketed: | | | | | |
| Cotton | 15 | 881.8 | 27.9 | 909.7 | 3.1 |
| Dairy | 221 | 6,606.6 | 1,165.4 | 7,771.9 | 15.0 |
| Fruits & vegetables | 231 | 5,861.0 | 206.8 | 6,067.8 | 3.4 |
| Grains and oilseeds, | | | | | |
| excluding cottonseed | 896 | 5,865.4 | 1,150.1 | 7,015.5 | 16.4 |
| Livestock and poultry | 96 | 4,201.8 | 486.7 | 4,688.5 | 10.4 |
| Rice | 17 | 538.1 | 16.6 | 554.7 | 3.0 |
| Sugar | 48 | 2,181.6 | 43.2 | 2,224.8 | 1.9 |
| Other products 4 | 225 | 3,029.0 | 72.8 | 3,101.8 | 2.3 |
| Total farm products | 1,749 | 29,165.4 | 3,169.3 | 32,334.7 | 9.8 |
| Total farm supplies | 1,313 | 12,343.7 | 2,092.0 | 14,435.7 | 14.5 |
| Total selected services | 404 | 821.0 | 90.3 | 911.3 | 9.9 |
| Combined total | 3,466 | 42,330.1 | 5,351.6 | 47,681.7 | 11.2 |

¹ Totals may not add due to rounding.

² Many cooperatives have multiproduct and multifunctional operations. Most are classified according to predominant commodity or function, as indicated by business volume.

³ Also includes investments in CoBank.

⁴ Includes dry edible beans and peas, nuts, tobacco, wool, and miscellaneous products.

Selected Financial Ratios

Financial ratios express relationships between items in the financial and income statements of a business operation and help in analyzing a cooperative's economic and financial situation.

Financial ratios can indicate problem areas. While they can't solve problems, they can serve as guidelines for planning and aid in formulating actions. Care must be taken in their use because both items used to calculate a ratio are subject to considerable variation. Ratio interpretation is largely subjective.

Five financial ratios were selected to indicate cooperative performance or financial condition--return on assets, net worth-to-assets, return on sales, total sales-to-assets, and the current ratio.

The return on assets and return on sales ratios indicate profitability. The net worth-to-assets ratio shows a cooperative's ability to meet long-term financial obligations. The total sales-to-asset ratio (asset turnover ratio) indicates how efficiently a cooperative is using its assets. The current ratio (current assets divided by current liabilities) best measures a cooperative's ability to meet short-run obligations.

Table 13 presents the values of these ratios for the cooperatives reporting to RBS. Extreme high and low values were excluded so those used would be more representative of the cooperatives reporting. Ratios are also shown by selected asset category for those cooperatives where sufficient information was available. These ratios offer cooperative leaders a general barometer to use in comparing their operations with others of the same type (and/or size).

The return on assets (net income/assets) varied considerably. It was negative for sugar, small cotton gins, small farm supply cooperatives, the smaller fruit and vegetable cooperatives, and livestock cooperatives with assets in the range of \$2.5 million to \$25 million. The ratio was highest (17.2) for the largest group of cotton ginning cooperatives. For dairy, the ratio was highest for those cooperatives with assets of \$25 million to \$99.9 million, similar to what was reported in 1998. Among grain cooperatives, the largest return (although small) came from the largest cooperatives.

The net worth-to-assets ratio ranged from a low of 25.1 percent for the largest fruit and vegetable cooperatives to a high of 99.4 percent for the tobacco cooperatives. Generally, as cooperatives become larger and/or do more processing, a declining percentage of their assets is financed by members, resulting in a lower net worth-to-assets ratio.

The return on sales (net income/total sales) ranged from a negative 6.9 percent for mid-sized live-

stock cooperatives to a high of 16.2 percent for the largest cotton ginning cooperatives. Few cooperatives generated a return on sales above 3 percent (only 11 of the 50 groups shown in table 13).

The sales-to-assets ratio ranged from a high of 52.9 for the small dairy (bargaining) cooperatives to a low of 0.4 for the tobacco cooperatives. Among dairy, fruit and vegetable, grain, and cotton ginning cooperatives, the ratio tended to decrease as cooperative size increased. Generally, this reflects the large investment in processing or manufacturing equipment typical of the larger dairy and fruit and vegetable cooperatives. The sales-to-assets ratios for farm supply cooperatives varied little with cooperative size. Most of these cooperatives are less involved in manufacturing or processing than the larger marketing cooperatives.

The generally high sales-to-assets ratios for the smaller cooperatives, as well as for some types of cooperatives, is due to bargaining activity or other marketing functions not requiring a major investment in plant and equipment.

The current ratio (current assets/current liabilities) ranged from a low of 1.1 for fruit and vegetable cooperatives with assets of \$25 million to \$99.9 million and sugar cooperatives, to 17.6 for tobacco cooperatives. Smaller cooperatives' current liabilities are generally low, but become larger in relation to current assets as business grows.

Crop Protectant Operations of Local Cooperatives

To conduct a special study of the crop protectant operations of local farm supply and marketing cooperatives, specific questions regarding the handling of crop protectants were included in the questionnaires. More than 380 local farm supply and marketing cooperatives provided information about their crop protectant sales, source, competition, type of competition, and services. These cooperatives represented 43 percent of all locals that sold crop protectants.

In 1999, crop protectant sales of respondents totaled \$830 million, or nearly 37 percent of all locals' crop protectant sales. The information gathered was compared with crop protectant sales data for the past nine years and to the results of a similar 1996 fertilizer study.

Questionnaires were mailed to local cooperatives with crop protectant sales in excess of \$0.5 million. Most were larger cooperatives, for which crop protectant sales averaged \$2.2 million, farm supply sales averaged \$10.6 million, and marketing sales averaged

Table 13— Selected financial ratios for cooperatives, 1999¹

| Type of co-op and asset group (mil. dol.) | Return on assets ² | Net worth to assets ³ | Return on sales⁴ | Sales to assets ⁵ | Current ratio 6 |
|--|----------------------------------|-------------------------------------|---------------------|---------------------------------|-----------------|
| | | Percent | | Nui | mber |
| Cotton | 7.8 | 42.6 | 2.8 | 2.8 | 1.5 |
| Less than \$25 | 11.5 | 30.5 | 4.6 | 2.5 | 1.2 |
| \$25 and more | 7.4 | 43.6 | 2.7 | 2.8 | 1.5 |
| Dairy ⁷ | 3.6 | 38.7 | 1.0 | 3.8 | 1.3 |
| Less than \$.99 | 1.1 | 58.8 | 0.02 | 52.9 | 1.5 |
| \$1.0 - \$2.49 | 7.3 | 47.5 | 0.6 | 11.6 | 1.3 |
| \$2.5 - \$24.99 | 5.2 | 38.3 | 0.5 | 11.2 | 1.2 |
| \$25.0 - \$99.99 | 7.6 | 38.3 | 1.3 | 5.8 | 1.2 |
| \$100.0 and more | 3.1 | 38.7 | 0.9 | 3.3 | 1.3 |
| Fruit and vegetable | 2.7 | 26.2 | 1.6 | 1.7 | 1.4 |
| Less than \$0.5 | -0.6 | 69.4 | -0.02 | 28.1 | 2.8 |
| \$0.5 - \$.99 | -3.4 | 84.9 | -0.1 | 25.4 | 4.1 |
| \$1.0 - \$2.49 | -2.7 | 54.3 | -0.9 | 3.2 | 1.6 |
| \$2.5 - \$24.99 | 10.4 | 36.1 | 3.7 | 2.8 | 1.2 |
| \$25.0 - \$99.99 | 0.9 | 26.8 | 0.5 | 1.7 | 1.1 |
| \$100.0 and more | 2.5 | 25.1 | 1.6 | 1.6 | 1.5 |
| \$100.0 and more | 2.5 | 25.1 | 1.0 | 1.0 | 1.5 |
| Grain and oilseed 8 | 4.6 | 49.1 | 1.9 | 2.4 | 1.3 |
| Less than \$.99 | 4.4 | 72.3 | 1.0 | 4.3 | 2.4 |
| \$1.0 - \$2.49 | 3.7 | 68.2 | 1.1 | 3.4 | 2.0 |
| \$2.5 - \$24.99 | 4.6 | 51.7 | 1.8 | 2.6 | 1.3 |
| \$25.0 and more | 4.7 | 43.0 | 2.2 | 2.1 | 1.2 |
| _ivestock ⁷ | 0.4 | 29.4 | 0.1 | 3.5 | 1.3 |
| Less than \$2.49 | 1.7 | 68.6 | 0.1 | 23.3 | 3.1 |
| \$2.5 - \$24.99 | -11.3 | 29.9 | -6.9 | 1.6 | 1.2 |
| \$25.0 and more | 0.5 | 29.4 | 0.2 | 3.5 | 1.3 |
| | | | | | |
| lut | 2.9 | 42.5 | 1.6 | 1.8 | 1.9 |
| Poultry | 3.9 | 35.3 | 1.3 | 3.1 | 1.4 |
| Rice | 1.1 | 48.9 | 0.4 | 2.4 | 1.5 |
| Sugar | -1.2 | 41.8 | -1.2 | 1.0 | 1.1 |
| obacco | 5.7 | 99.4 | 14.3 | 0.4 | 17.6 |
| flisc. marketing | 2.7 | 53.2 | 1.5 | 1.9 | 1.6 |
| Fishery | 0.4 | 48.3 | 0.2 | 2.7 | 1.4 |
| arm supply | 2.0 | 45.6 | 1.1 | 1.8 | 1.4 |
| Less than \$0.5 | 5 | 77.4 | 2 | 2.3 | 3.2 |
| \$0.5 - \$.99 | 3.0 | 71.3 | 1.5 | 2.0 | 2.3 |
| \$1.0 - \$2.49 | 5.2 | 71.4 | 2.5 | 2.1 | 2.3 |
| \$2.5 - \$24.99 | 4.9 | 59.9 | 2.6 | 1.9 | 1.5 |
| \$25.0 - \$99.99 | 4.4 | 46.2 | 2.0 | 2.2 | 1.3 |
| \$100.0 - \$499.99 | 5.2 | 46.9 | 3.3 | 1.6 | 1.4 |
| \$500.0 and more | 0.1 | 39.1 | 0.1 | 1.7 | 1.3 |
| Artificial insemination | 6.3 | 62.4 | 2.1 | 3.0 | 1.8 |

Continued

Table 13—Selected financial ratios for cooperatives, 1999¹(continued)

| Type of co-op and asset group (mil. dol.) | Return on assets ² | Net worth to assets ³ | Return on sales⁴ | Sales to assets ⁵ | Current ratio ⁶ |
|---|----------------------------------|-------------------------------------|---------------------|---------------------------------|----------------------------|
| | | Percent | | Nu | mber |
| Cotton gins | 15.6 | 65.1 | 12.6 | 1.2 | 1.5 |
| Less than \$0.5 | -1.6 | 40.4 | -1.1 | 1.4 | 1.3 |
| \$0.5 - \$.99 | 8.9 | 59.0 | 5.0 | 1.8 | 1.8 |
| \$1.0 - \$2.49 | 13.0 | 71.3 | 8.0 | 1.6 | 2.0 |
| \$2.5 and more | 17.2 | 63.9 | 16.2 | 1.1 | 1.4 |
| Other service 9 | 6.2 | 48.5 | 7.3 | 0.9 | 1.3 |
| Less than \$.99 | 1.8 | 73.6 | 1.2 | 1.6 | 1.3 |
| \$1.0 - \$2.49 | 12.4 | 50.1 | 10.9 | 1.1 | 1.6 |
| \$2.5 and more | 5.6 | 47.1 | 7.1 | 0.8 | 1.3 |
| | | | | | |

Based on cooperatives reporting. Excludes strictly pooling cooperatives. Ratios were calculated by summing the individual items and dividing. The same cooperatives were included in each group to calculate all five ratios. Extreme values not representative of the group were excluded.

\$11.1 million in 1999. Crop protectant sales growth was fairly steady, increasing almost 11 percent per year from 1991 to 1999.

An analysis of local cooperative crop protectant operations showed the following:

- Herbicides comprised 81 percent of all crop protectant sales, insecticides 14 percent, fungicides 3 percent, and all other 2 percent.
- Most locals purchased their crop protectants from regional cooperatives. Regionals provided nearly 68 percent of herbicides and insecticides, and almost 50 percent of fungicides and all other crop protectants sold by locals.
- Investor-owned crop protectant suppliers were the primary competitors. Other cooperatives were a close second. Price was, most often, the major competitive factor.
- More than 95 percent of the cooperatives provided crop protectant applications, 93 percent crop/agronomy specialists, 83 percent soil testing for organic matter, and 76 percent crop protectant records. Services offered varied by

- cooperative size. Larger cooperatives with higher sales volumes offered services most often.
- Cooperatives embraced technology--global positioning system (GPS) and global information system (GIS)--in applying crop protectants. Sixty-eight percent offered field mapping using this technology. GPS and GIS were also used for record keeping by cooperatives with 48 percent of the crop protectant volume and by those with 57 percent of the application equipment.

III—COOPERATIVE TRENDS, 1990-99

Although the number of cooperatives decreased during the past decade, their business volume increased, until recent years. Cooperatives continue to adjust to the changing economic environment through dissolution, merger, consolidation, acquisition, and the sale of assets. In some cases, farmers organized newgeneration cooperatives and formed joint ventures and alliances to become involved in value-added activities.

² Includes net income before any income taxes are deducted. Calculated by dividing net income by total assets. Usually referred to as the return on assets.

³ Net worth, or member equity, is the book value of the assets owned by members. The ratio was calculated by dividing total net worth by total assets.

⁴ Total sales includes service receipts, other income, and patronage refunds received from other cooperatives, and CoBank. The return on sales was found by dividing net income by total sales.

⁵ Calculated by dividing total sales by total assets.

⁶ The current ratio was derived by dividing current assets by current liabilities. These data were taken from annual reports where provided.

⁷ Includes bargaining cooperatives.

⁸ Excludes cottonseed.

⁹ Includes cooperatives providing primarily services related to storage, transportation, livestock shipping, and rice drying.

In 1990, the net business volume of 4,663 cooperatives totaled \$77.3 billion. A decade later, net business volume, generated by 3,466 cooperatives, was \$99.1 billion.

Number of Cooperatives

The total number of marketing, farm supply, and related-service cooperatives declined from 4,663 in 1990 to 3,466 in 1999 (table 14 and figure 12).

Table 14— Number of farmer cooperatives, 1990-99

| Period ¹ | Marketing | Farm supply | Service | Total | | | |
|---------------------|-----------|-------------|---------|-------|--|--|--|
| | | Number | | | | | |
| 1990 | 2,519 | 1,717 | 427 | 4,663 | | | |
| 1991 | 2,384 | 1,689 | 421 | 4,494 | | | |
| 1992 | 2,218 | 1,618 | 479 | 4,315 | | | |
| 1993 | 2,214 | 1,547 | 483 | 4,244 | | | |
| 1994 | 2,173 | 1,496 | 505 | 4,174 | | | |
| 1995 | 2,074 | 1,458 | 474 | 4,006 | | | |
| 1996 | 2,012 | 1,403 | 469 | 3,884 | | | |
| 1997 | 1,941 | 1,386 | 464 | 3,791 | | | |
| 1998 | 1,863 | 1,347 | 441 | 3,651 | | | |
| 1999 | 1,749 | 1,313 | 404 | 3,466 | | | |

Prior to 1990, see Cooperative Historical Statistics, CIR 1, Section 26, USDA, Revised April 1998.

Marketing cooperatives declined from 2,519 to 1,749 and farm supply cooperatives from 1,717 to 1,313. Number of service cooperatives decreased from 427 to 404.

From 1990 through 1999, 1,861 cooperatives (about 186 per year), were removed from RBS' list of farmer cooperatives. Of those, 44.6 percent were dissolved, 32.2 percent merged or consolidated, 13.9 percent were acquired by other cooperatives or investorowned firms, and the remaining 9.2 percent were removed for other reasons (figure 13).

Even while cooperatives were disappearing from RBS' list, newly formed ones or ones not previously on the list were added. From 1990 through 1999, 528 cooperatives, (about 53 per year) were added. Only 8 cooperatives were added during 1999, the smallest increase since the information was recorded.

Grain and Farm Supply Branches

In 1995, 2,548 grain and farm supply cooperatives had an estimated 5,101 branches, 2,172 owned by grain cooperatives and 2,929 by farm supply cooperatives. In 1999, grain and farm supply cooperative numbers had dropped to 2,209, but branches had increased to 5,330 (table 15 and figure 14).

Figure 12— Farmer Cooperatives in the United States, 1990-99

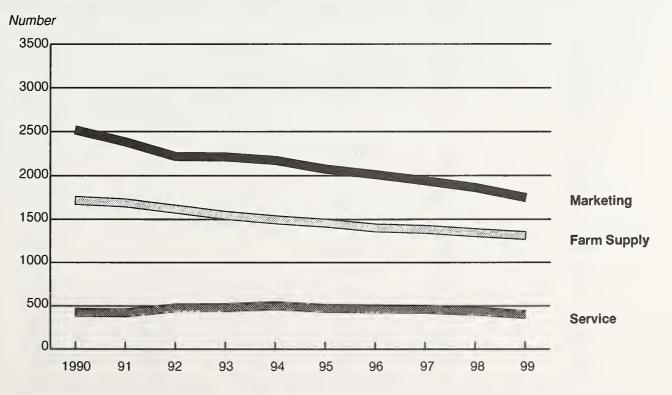
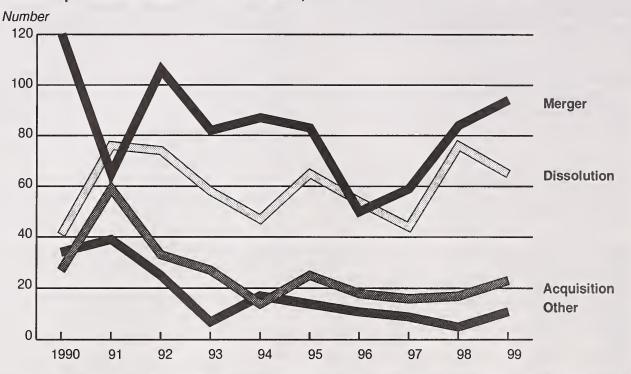


Figure 13— Cooperatives Removed from RBS' List, 1990-99



Based on a list of U.S. farmer cooperatives maintained by RBS. Mergers also include consolidations. Other includes cooperatives dropped due to inactivity and unknown and miscellaneous reasons.

Table 15— Estimated number of branches operated by grain and farm supply cooperatives, 1995-99

| | | As | set Group (million doll | ars) | |
|------|-------------|---------|-------------------------|------------|-------|
| Year | Less than 5 | 5 - 9.9 | 10 - 24.9 | 25 or more | Total |
| | | | Grain Cooperatives | | |
| 1995 | 658 | 223 | 174 | 35 | 1,090 |
| 1996 | 618 | 229 | 176 | 43 | 1,066 |
| 1997 | 616 | 196 | 155 | 47 | 1,014 |
| 1998 | 550 | 216 | 150 | 48 | 964 |
| 1999 | 512 | 187 | 147 | 50 | 896 |
| | | | Branches | | |
| 1995 | 399 | 440 | 756 | 577 | 2,172 |
| 1996 | 387 | 505 | 743 | 691 | 2,326 |
| 1997 | 364 | 463 | 717 | 706 | 2,250 |
| 1998 | 292 | 517 | 774 | 716 | 2,299 |
| 1999 | 295 | 422 | 685 | 761 | 2,163 |
| | | F | arm Supply Cooperate | ives | |
| 1995 | 1,134 | 211 | 97 | 16 | 1,458 |
| 1996 | 1,064 | 213 | 109 | 17 | 1,403 |
| 1997 | 1,022 | 232 | 109 | 23 | 1,386 |
| 1998 | 928 | 277 | 112 | 30 | 1,347 |
| 1999 | 933 | 223 | 121 | 36 | 1,313 |
| | | | Branches | | |
| 1995 | 571 | 502 | 460 | 1,396 | 2,929 |
| 1996 | 542 | 523 | 526 | 1,438 | 3,029 |
| 1997 | 481 | 579 | 576 | 1,576 | 3,183 |
| 1998 | 528 | 548 | 570 | 1,672 | 3,318 |
| 1999 | 423 | 547 | 534 | 1,663 | 3,167 |

Average number of branches per cooperative was 2 in 1995 and 2.4 in 1999. Larger cooperatives accounted for most of the branches, particularly among the farm supply cooperatives. Of those with assets of \$25 million or more in 1999, 36 farm supply cooperatives had an estimated 1,663 branches and 50 grain cooperatives had 761 branches.

Memberships

Memberships in farmer cooperatives dropped from 4.1 million in 1990 to 3.2 million in 1999 (table 16 and figure 15). The long-term decline, in large part, reflects the decreasing number of farms and farmers in the United States. Many farmers are members of more than one cooperative and each membership is counted. Consequently, number of memberships exceeds the number of farmers. Duplication in membership cannot be eliminated with current reporting methods.

Member classification depends on the type of cooperative used and may not be related to the member's product(s) marketed or supplies purchased. For example, a member may market only one of the farm products handled by the cooperative or use a cooperative classified in the marketing group to purchase one or more production items. A member's business with the cooperative, therefore, may not be in the group

Table 16— Memberships in marketing, farm supply, and related-service cooperatives, 1990–99

| Period ¹ | Marketing | Farm supply | Service | Total |
|---------------------|-----------|-------------|---------|-------|
| | | 1,000 |) | |
| 1990 | 1,882 | 2,006 | 232 | 4,119 |
| 1991 | 1,842 | 2,025 | 191 | 4,059 |
| 1992 | 1,839 | 2,020 | 212 | 4,072 |
| 1993 | 1,830 | 1,977 | 216 | 4,023 |
| 1994 | 1,805 | 1,936 | 245 | 3,986 |
| | | | | |
| 1995 | 1,712 | 1,846 | 210 | 3,767 |
| 1996 | 1,682 | 1,795 | 187 | 3,664 |
| 1997 | 1,498 | 1,743 | 183 | 3,424 |
| 1998 | 1,398 | 1,774 | 181 | 3,353 |
| 1999 | 1,283 | 1,731 | 159 | 3,173 |

Prior to 1990, see Cooperative Historical Statistics, CIR 1, Section 26, USDA, Revised April 1998.

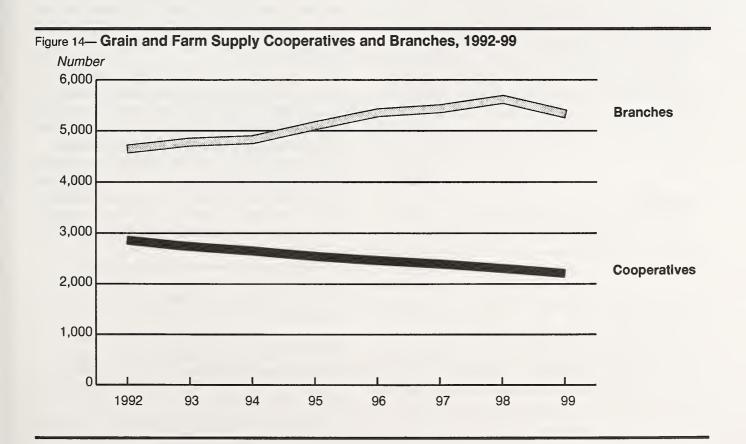
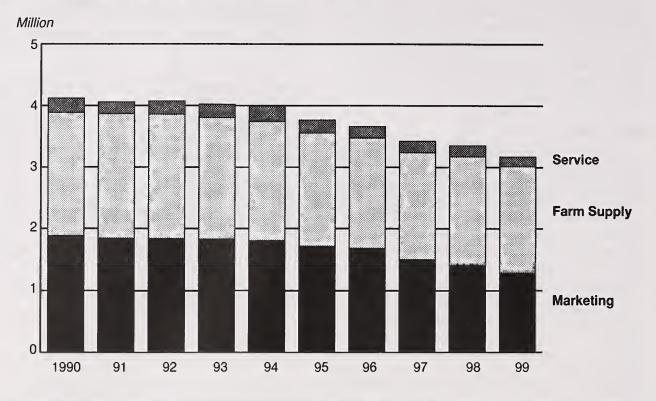


Figure 15— Cooperative Memberships by Function, 1990-99



that represents the cooperative's major business volume (the criterion for classifying cooperatives in this report). The membership, however, will be included arbitrarily in that classification.

During the past decade, memberships in relatedservice and marketing cooperatives decreased at more than twice the rate of memberships in farm supply cooperatives. Memberships in marketing cooperatives dropped 599,297, or 31.8 percent, while memberships in farm supply cooperatives decreased 274,160, or 13.7 percent.

Employees

Farmer cooperatives had an estimated 172,951 full-time employees in 1999, down from 173,791 in 1998 (table 17). Employees appeared to peak in 1995, at 175,399. Marketing and related-service cooperatives decreased their use of full-time employees during 1995-99. Farm supply cooperatives, however, increased their use.

Overall, the trend appears to be the same with marketing and related-service cooperatives that are decreasing their use of full-time employees while farm supply cooperatives are increasing their use. This is, in part, due to many of the grain cooperatives being reclassified as farm supply cooperatives because of sharply declining grain prices during the past three-tofour years.

Business Volume

Net cooperative business, unadjusted for price change, increased from \$77.3 billion in 1990 to \$99.1 billion in 1999 (table 18). When adjusted³, net business totaled \$101.9 billion in 1999 (figure 16). Consequently, the difference between actual and real net business volume in 1999 was \$2.8 billion. The real net business volume was above the actual value in 1999 due to low prices received for farm products. Prices received for all farm commodities dropped nearly 5 percent, while prices paid for production items decreased .9 percent from 1998-99.

Marketing sales of four major commodity groups--dairy; grains and oilseeds, excluding cottonseed; fruits and vegetables; and livestock--decreased

³ Marketing sales was deflated by the index of producer prices received for "all farm products" (1990 = 100). Supply sales and service receipts and other income were deflated by the index of prices paid by farmers for "production items," excluding interest, taxes, and wages (1990 = 100).

Table 17— Cooperatives' number of full-time employees, 1995-99

| On many and the | | | Full-time Employees | | |
|---------------------|---------|---------|---------------------|---------|---------|
| Commodity | 1995 | 1996 | 1997 | 1998 | 1999 |
| | | | Number | | |
| Cotton | 2,136 | 1,787 | 1,995 | 1,844 | 1,787 |
| Dairy | 29,828 | 27,621 | 28,323 | 27,056 | 24,598 |
| Fruits & vegetables | 24,944 | 26,456 | 22,847 | 23,734 | 23,329 |
| Grains & oilseeds | 24,811 | 25,981 | 23,538 | 23,873 | 20,998 |
| Livestock & poultry | 28,635 | 28,453 | 26,399 | 28,031 | 32,690 |
| Rice | 2,785 | 2,636 | 2,713 | 2,655 | 2,600 |
| Sugar | 3,422 | 3,482 | 3,473 | 4,402 | 4,459 |
| Other products | 7,590 | 7,109 | 9,191 | 8,474 | 8,525 |
| Marketing | 124,151 | 123,525 | 118,479 | 120,069 | 118,986 |
| Farm supply | 45,302 | 45,566 | 47,870 | 48,171 | 49,466 |
| Service | 5,946 | 5,704 | 5,850 | 5,551 | 4,499 |
| Total | 175,399 | 174,795 | 172,199 | 173,791 | 172,951 |

slightly as a proportion of marketing sales, from 83.1 percent in 1990 to 83 percent in 1999. In 1990 and a decade later, net volume (among commodity groups) was highest for dairy. In terms of net volume, dairy was \$26 billion (\$20.7 billion in 1990) and grains and oilseeds \$17.1 billion in 1999. In 1996 and 1997, grains and oilseeds led commodity groups, due to high grain prices (figure 17).

Milk and milk product sales showed the strongest absolute dollar growth during 1990-99. Prior to 1997, grain and oilseed sales surged, but subsequently dropped, because of sharply declining prices.

In the farm supply group, petroleum, feed, and fertilizer were especially important. They accounted for 70.5 percent of cooperatives' total farm supply sales in 1990 and 67.9 percent in 1999. The drop reflected increased sales of crop protectants and "other." In 1990, they accounted for 26.2 percent of farm supply sales versus 28.8 percent in 1999.

Cooperatives' sales of petroleum, feed, fertilizer, and crop protectants grew steadily until 1998. Seed sales remained fairly stable (figure 18). In 1998 and 1999, feed and fertilizer sales dropped, due mainly to lower prices.

Net marketing of farm products totaled \$57.8 billion in 1990 and increased annually, except in 1991 and 1997-99. In 1999, net business volume of farm products marketed dropped from \$76.6 billion in 1998 to \$72 billion (table 19). Aggregate farm supply sales increased

every year, from \$17.1 billion in 1990 to \$25.2 billion in 1997, but then dropped in 1998 and 1999 to \$24.6 billion and \$23.2 billion, respectively. Service receipts (includes other income and revenue) increased from \$2.3 billion in 1990 to \$3.9 billion in 1999, the highest on record.

Gross business volume was \$92.7 billion in 1990 and \$115.3 billion in 1999, down from \$121 billion in 1998 and a record high of \$128.1 billion in 1996. The 1996 record increase in business volume (\$15.9 billion) was due mainly to higher prices for grains and oilseeds.

Net Income

Starting with \$1.44 billion in 1990, total net income fluctuated and finally set a record at \$2.36 billion in 1995. It dipped in 1996, climbed back in 1997, but then dropped significantly in both 1998 and 1999 to \$1.33 billion in 1999 (table 20 and figure 19). Low prices and margins associated with overproduction in agriculture were major factors.

Net income from own operations and other cooperatives varied over time. Both reflected better economic times in agriculture in the mid-1990s compared with conditions in the late 1980s, early 1990s, and the late 1990s. In 1990, refunds from other cooperatives totaled \$378 million, or 26.3 percent of total net

Table 18— Cooperatives' net business volume, 1990 and 1999¹

| | Net Busi | ness Volume |
|---|----------|-------------|
| Function | 1990 | 1999 |
| | Millio | on dollars |
| Products marketed: | | |
| Beans and peas (dry edible) | 213.1 | 174.9 |
| Cotton | 2,087.5 | 2,083.4 |
| Dairy | 20,719.1 | 25,999.1 |
| Fruits and vegetables | 8,241.4 | 9,285.6 |
| Grains and oilseeds 2 | 14,259.2 | 17,113.1 |
| Livestock | 4,861.4 | 7,318.9 |
| Nuts | 8.008 | 899.1 |
| Poultry | 1,130.4 | 2,225.9 |
| Rice | 733.1 | 911.7 |
| Sugar | 2,124.4 | 2,540.0 |
| Tobacco | 597.0 | 278.4 |
| Wool and mohair | 19.8 | 6.4 |
| Other products ³ | 2,043.4 | 3,145.5 |
| Total farm products | 57,830.6 | 71,981.9 |
| Supplies purchased: | | |
| Crop protectants. | 1,767.9 | 3,018.3 |
| Feed. | 4,102.9 | 4,725.6 |
| Fertilizer | 3,230.4 | 4,758.6 |
| Petroleum | 4,715.2 | 6,259.8 |
| Seed | 562.0 | 752.1 |
| Other supplies | 2,710.2 | 3,662.9 |
| Total farm supplies | 17,088.4 | 23,177.3 |
| Services provided: Services provided: Trucking, cotton ginning, storage, grinding, locker | | |
| plants, misc. | 2,347.3 | 3,905.1 |
| Total business | 77,266.4 | 99,064.3 |

¹ Excludes inter-cooperative business volume. Totals may not add due to rounding.

income. In 1999, refunds totaled \$383.5 million, or 28.9 percent of total net income. CoBank refunds were also included.

Balance Sheet

Cooperatives' total assets grew by \$17.7 billion, from \$30 billion in 1990 to \$47.7 billion in 1999 (table 21 and figure 20), reflecting added investments in their own operations and investments in other cooperatives. In 1990, nearly \$3.1 billion (10.3 percent of total assets)

was invested in other cooperatives, including CoBank. In 1999, these investments were \$5.4 billion, up \$2.3 billion from 1990, or 11.2 percent of total assets.

Cooperatives' total liabilities also grew, from \$16.6 billion in 1990 (55.2 percent) to \$27.4 billion, up \$10.8 billion in 10 years.

Total liabilities financed 57.5 percent of total assets in 1999. The strength of a balance sheet depends on the proportion of total assets financed by net worth or equity capital. In 1990, cooperatives' net worth totaled \$13.4 billion and financed 44.8 percent of total assets. By 1999, total net worth had reached nearly \$20.3 billion, and financed 42.5 percent. During the decade, the proportion of net worth used to finance total assets reached a high of 44.9 percent in 1991 and a low of 40.8 percent in 1996. Most would say farmer cooperatives, overall, have a strong balance sheet.

IV—OTHER SERVICE COOPERATIVES

In 1999, other service cooperatives, ones other than those directly related to marketing and purchasing, included farm credit system cooperatives, rural electric cooperatives, rural credit unions, and dairy herd improvement associations.

Farm Credit System

The Farm Credit System (FCS) is a nationwide network of financial cooperatives that lend to agriculture and rural America. FCS provides credit and related services to farmers, ranchers, producers and harvesters of aquatic products, rural homeowners, certain farm-related businesses, agricultural and aquatic cooperatives, rural utilities, and to certain foreign or domestic entities in connection with international transactions.

By 1999, FCS was represented by 18 Federal Land Bank Associations (FLBAs), 50 Federal Land Credit Associations (FLCAs), 60 Production Credit Associations (PCAs), and 50 Agricultural Credit Associations (ACAs) (table 22).

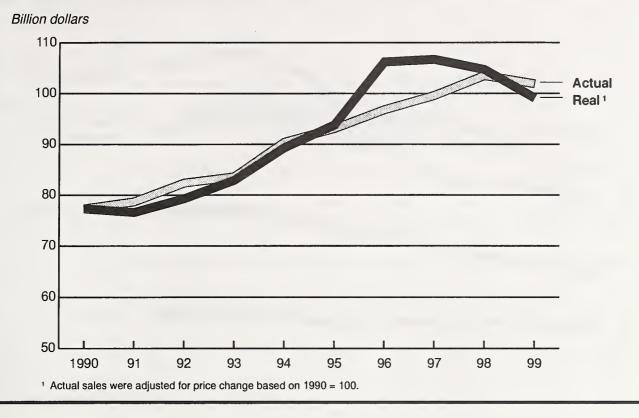
The combined assets of FCS for 1999 totaled \$88.7 billion--up 5.4 percent from \$84.1 billion in 1998 (table 23). Net worth was \$13.3 billion, up 6.4 percent from 1998, and net income was \$1.23 billion, down from \$1.25 billion, or 1.4 percent.

The FLBAs originate and service long-term loans made by FCBs. Loan proceeds are used to purchase agricultural real estate and rural homes and refinance agricultural real estate and rural home mortgages.

² Excludes cottonseed. Cottonseed sales were included with cotton. Cottonseed meal and oil sales were included with feed and other products, respectively.

³ Includes value of processed oilseeds.

Figure 16— Cooperatives' Net Business Volume, 1990-99



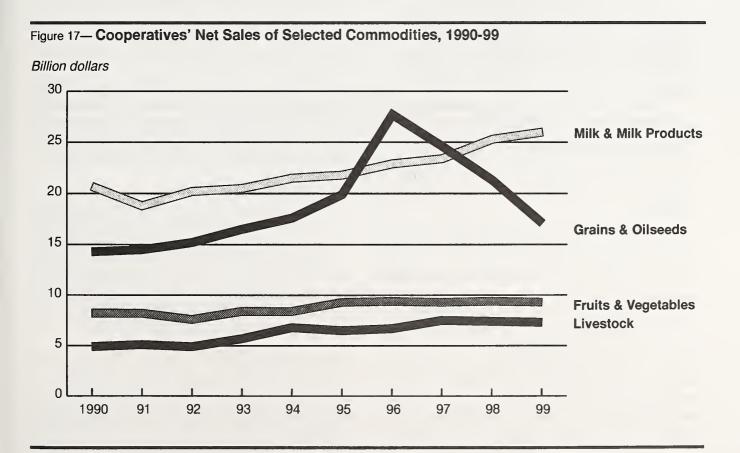
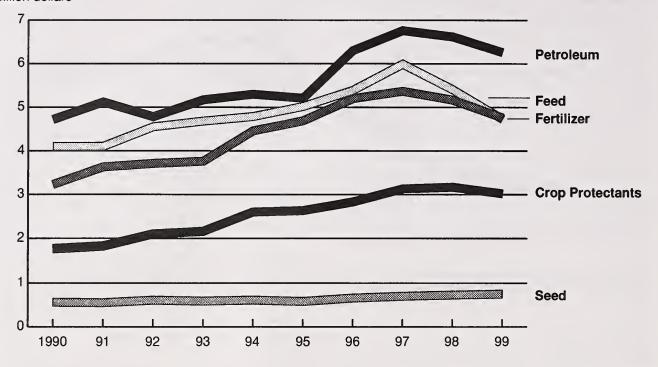


Figure 18— Cooperatives' Net Sales of Selected Farm Supplies, 1990-99

Billion dollars



Of the 50 FLCAs operating on Oct. 1, 1999, 18 were in the FCB of Wichita and 17 in the AgriBank, FCB, District. FLCAs were authorized by the Agricultural Credit Act of 1987. FLCAs are former FLBAs that were given direct-lending authority by FCBs.

PCAs provide farmers and ranchers short- and intermediate-term loans for various purposes, such as operating expenses, farm equipment and livestock purchases, and farm buildings and other capital improvements. Of the 60 PCAs, 17 were located in the AgriBank, FCB, District and 18 in the FCB of Wichita territory.

ACAs resulted from the merger of FLBAs or FLCAs with PCAs. ACAs offer both long- and short-term loans. Of the 50 ACAs operating on Oct. 1, 1999, 32 of them were in AgFirst, FCB, territory and 8 in the AgriBank, FCB, district.

The FCBs provide loans and support services to FLBAs, ACAs, FLCAs, and PCAs within their districts.

CoBank, ACB, provides short-, intermediate-, and long-term credit to agricultural cooperatives, rural utility systems, and other rural businesses nationwide. It also provides credit to the Farm Credit Associations serving agricultural producers in the Northeast. CoBank, ACB, is owned by about 2,300 stockholders,

consisting of U.S. farmer cooperatives, rural utilities, ACAs, and other businesses serving rural America. CoBank also finances U.S. agricultural exports and provides international banking services for farmer cooperatives.

The combined assets of CoBank increased from \$22.1 billion in 1998 to \$24.1 billion in 1999. Net worth totaled nearly \$1.7 billion. As of Dec. 31, 1999, CoBank had net loans of \$18.4 billion and net income of \$121 million, down from \$145 million in 1998 (table 24).

Rural Electric Cooperatives

Rural electric cooperatives increased in number to 672 from 662 in 1998. Consumer members, however, decreased to 10.5 million from 10.8 million, but revenue increased to \$23.7 billion (table 25) from \$14.2 billion in 1998. Texas had the most associations, with 44 (6.6 percent of the total), while Georgia had the most consumer members, with 1,069 (10.2 percent), and the largest revenue, \$2,744 million (11.6 percent).

Rural Credit Unions

The 595 rural credit unions reported 3.9 million members and savings of more than \$18 billion, a decrease from 653 credit unions, 4.4 million members, and savings of \$19.9 billion in 1998. Wisconsin, with

Table 19— Cooperatives' gross and net business volumes, 1990-991

| | | Gross | volume | | | Net | volume | |
|---------------------|---------------|------------------|-----------------------|--------|---------------|------------------|-----------------------|-------|
| Period ² | Farm products | Farm supplies | Services ³ | Total | Farm products | Farm supplies | Services ³ | Total |
| | | | | Billio | n dollars | | | |
| 1990 | 64.1 | 26.3 | 2.3 | 92.7 | 57.8 | 17.1 | 2.3 | 77.3 |
| 1991 | 61.4 | 26.8 | 2.5 | 90.8 | 56.2 | 17.9 | 2.5 | 76.6 |
| 1992 | 63.8 | 27.0 | 2.6 | 93.4 | 58.2 | 18.5 | 2.6 | 79.3 |
| 1993 | 66.8 | 28.2 | 2.7 | 97.7 | 60.9 | 19.2 | 2.7 | 82.9 |
| 1994 | 72.1 | 30.4 | 3.0 | 105.5 | 65.5 | 20.8 | 3.0 | 89.3 |
| 1995 | 77.9 | 31.0 | 3.3 | 112.2 | 69.3 | 21.2 | 3.3 | 93.8 |
| 1996 | 90.3 | 34.7 | 3.1 | 128.1 | 79.4 | 23.7 | 3.1 | 106.2 |
| 1997 | 85.9 | 37.1 | 3.6 | 126.7 | 77.8 | 25.2 | 3.6 | 106.7 |
| 1998 | 84.5 | 33.0 | 3.5 | 121.0 | 76.6 | 24.6 | 3.5 | 104.7 |
| 1999 | 80.5 | 30.9 | 3.9 | 115.3 | 72.0 | 23.2 | 3.9 | 99.1 |
| | | | | Pe | rcent | | | |
| 1990 | 69.1 | 28.4 | 2.5 | 100 | 74.9 | 22.1 | 3.0 | 100 |
| 1991 | 67.7 | 29.5 | 2.8 | 100 | 73.3 | 23.4 | 3.3 | 100 |
| 1992 | 68.3 | 28.9 | 2.8 | 100 | 73.4 | 23.4 | 3.2 | 100 |
| 1993 | 68.4 | 28.8 | 2.8 | 100 | 73.5 | 23.2 | 3.3 | 100 |
| 1994 | 68.4 | 28.8 | 2.8 | 100 | 73.4 | 23.3 | 3.3 | 100 |
| 1995 | 69.5 | 27.6 | 2.9 | 100 | 73.9 | 22.6 | 3.5 | 100 |
| 1996 | 70.5 | 27.1 | 2.4 | 100 | 74.8 | 22.3 | 2.9 | 100 |
| 1997 | 67.8 | 29.3 | 2.9 | 100 | 72.9 | 23.7 | 3.4 | 100 |
| 1998 | 69.9 | 27.2 | 2.9 | 100 | 73.2 | 23.5 | 3.3 | 100 |
| 1999 | 69.8 | 26.8 | 3.4 | 100 | 72.7 | 23.4 | 3.9 | 100 |
| | | | | | | | | |

¹ Gross includes and net excludes inter-cooperative business. Totals may not add due to rounding.

65, had the most associations, or 10.9 percent of the total, while California had the most members and credit union savings with 902,000 and \$5.2 billion, respectively. California, Wisconsin, and Michigan accounted for more than 1.9 million memberships (48.6 percent of the total), and more than \$9 billion in savings, or 50.1 percent of the total (table 26).

Dairy Herd Improvement Associations

Dairy Herd Improvement Associations (DHIA) had 33,539 memberships in 1999 (table 27), down from 34,820 in 1998. The DHIAs tested nearly 4.3 million cows in 1999, up from 4.2 million in 1998. Wisconsin (8,512), Pennsylvania (4,730), Minnesota (3,792), and

New York (2,940), combined, accounted for 59.6 percent of total members, the same as in 1998. About 872,700 (20.4 percent) of the cows tested were in California, up from 19.7 percent.

² Prior to 1990, see *Cooperative Historical Statistics*, CIR 1, Section 26, USDA, Revised April 1998. Data for prior years are not entirely comparable due to revisions in statistical procedures.

³ Services related to marketing or supply purchasing, but not included in the volumes reported for these activities. Beginning with 1990, other income and revenue were included with service receipts.

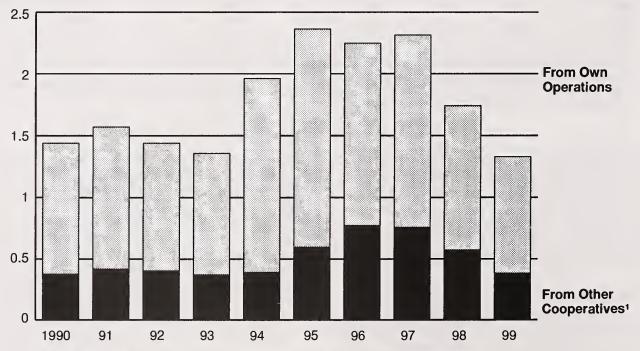
Table 20— Net income of farmer cooperatives, 1990–991

| Year | From own operations | From other cooperatives ² | Total |
|------|---------------------|--------------------------------------|-------|
| | | Million dollars | |
| 1990 | 1,062 | 378 | 1,440 |
| 1991 | 1,152 | 418 | 1,570 |
| 1992 | 1,034 | 406 | 1,440 |
| 1993 | 985 | 373 | 1,358 |
| 1994 | 1,571 | 392 | 1,963 |
| 1995 | 1,766 | 597 | 2,363 |
| 1996 | 1,475 | 773 | 2,248 |
| 1997 | 1,557 | 757 | 2,314 |
| 1998 | 1,169 | 573 | 1,742 |
| 1999 | 944 | 384 | 1,328 |

¹ Totals may not add due to rounding. Excludes income from cooperative pooling operations.

Figure 19— Cooperatives' Net Income, 1990-99





¹ Includes dividends and patronage refunds from other farmer cooperatives and CoBank.

² Dividends and patronage refunds received from other marketing, farm supply, and related–service cooperatives, CoBank, and Banks for Cooperatives, where applicable.

Table 21— Combined balance sheet data for farmer cooperatives, 1990-99

| Year | Assets from own operations | Investments in other co-ops ¹ | Total assets | Total liabilities | Net worth | |
|------|----------------------------------|--|-------------------------|----------------------|--------------|--|
| | | | Million dollars | | | |
| 1990 | 26,948 | 3,076 | 30,024 | 16,575 | 13,449 | |
| 1991 | 27,887 | 3,381 | 31,268 | 17,227 | 14,040 | |
| 1992 | 28,967 | 3,027 | 31,994 | 17,780 | 14,213 | |
| 1993 | 30,484 | 2,962 | 33,446 | 18,634 | 14,812 | |
| 1994 | 32,784 | 3,176 | 35,960 | 20,339 | 15,621 | |
| 1995 | 37,046 | 3,228 | 40,274 | 23,643 | 16,631 | |
| 1996 | 39,011 | 3,577 | 42,588 | 25,195 | 17,392 | |
| 1997 | 39,922 | 4,074 | 43,996 | 25,459 | 18,537 | |
| 1998 | 41,884 | 4,676 | 46,560 | 26,606 | 19,954 | |
| 1999 | 42,330 | 5,352 | 47,682 | 27,418 | 20,264 | |
| | | | Percent of total assets | • | | |
| 1990 | 89.8 | 10.2 | 100 | 55.2 | 44.8 | |
| 1991 | 89.2 | 10.8 | 100 | 55.1 | 44.9 | |
| 1992 | 90.5 | 9.5 | 100 | 55.6 | 44.4 | |
| 1993 | 91.1 | 8.9 | 100 | 55.7 | 44.3 | |
| 1994 | 91.2 | 8.8 | 100 | 56.6 | 43.4 | |
| 1995 | 92.0 | 8.0 | 100 | 58.7 | 41.3 | |
| 1996 | 91.6 | 8.4 | 100 | 59.2 | 40.8 | |
| 1997 | 90.7 | 9.3 | 100 | 57.9 | 42.1 | |
| 1998 | 90.0 | 10.0 | 100 | 57.1 | 42.9 | |
| 1999 | 88.8 | 11.2 | 100 | 57.5 | 42.5 | |

¹ Includes investments in other farmer cooperatives, CoBank, and Banks for Cooperatives, where applicable.

Figure 20— Cooperatives' Net Worth and Liabilities, 1990-99

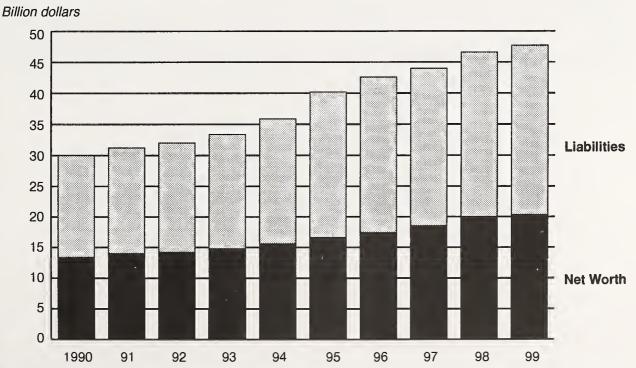


Table 22— Farm Credit Association Structure, Oct. 1, 1999¹

| District or bank affiliation | FLBA | PCA | ACA | FLCA |
|------------------------------|------|-----|-----|------|
| | | Num | ber | • |
| CoBank, ACB ² | - | - | 4 | - |
| AgFirst FCB | - | 1 | 32 | - |
| AgriBank, FCB | - | 17 | 8 | 17 |
| FCB of Wichita | 4 | 18 | - | 18 |
| FCB of Texas | 14 | 13 | - | 3 |
| Western FCB ³ | - | 10 | 5 | 11 |
| AgAmerica, FCB | - | 1 | 1 | 1 |
| | _ | _ | | |
| Total | 18 | 60 | 50 | 50 |

^{- =} No bank affiliation.

Source: Farm Credit Administration, Accountability Report FY 1999, McLean, VA, p. 32.

Table 23— Farm Credit System's combined assets, net worth, and net income, 1995–991

| Year | Assets | Net worth | Net income |
|---|--------|-----------------|------------|
| .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | Million dollars | |
| 1995 | 71,438 | 9,864 | 1,165 |
| 1996 | 74,917 | 10,729 | 1,201 |
| 1997 | 78,144 | 11,694 | 1,267 |
| 1998 | 84,139 | 12,522 | 1,251 |
| 1999 | 88,692 | 13,319 | 1,233 |

¹ Farm Credit System, Annual Information Statement, 1999, Federal Farm Credit Banks, Funding Corporation, Jersey City, NJ., Feb. 24, 2000, p. 3.

Table 24— Combined assets, net worth, net loans, and net income of CoBank, ACB, 1995–991

| Assets | Net worth | Net loans | Net income |
|--------|--------------------------------------|---|--|
| | Million | dollars | |
| 21,268 | 1,429 | 17,553 | 167 |
| 20,771 | 1,504 | 16,871 | 145 |
| 21,207 | 1,600 | 16,821 | 164 |
| 22,104 | 1,671 | 17,513 | 145 |
| 24,089 | 1,665 | 18,398 | 121 |
| | 21,268 20,771 21,207 22,104 | Million 21,268 1,429 20,771 1,504 21,207 1,600 22,104 1,671 | Million dollars 21,268 1,429 17,553 20,771 1,504 16,871 21,207 1,600 16,821 22,104 1,671 17,513 |

As of December 31 of each year. Effective July 1, 1999, CoBank, ACB, and the former St. Paul Bank for Cooperatives merged through an exchange of stock. Source: CoBank, ACB, Creating Customer Value in the 21st Century, 1999 Annual Report, Englewood, CO.

¹ FLBA = Federal Land Bank Association, PCA = Production Credit Association, ACA = Agricultural Credit Association, FLCA = Federal Land Credit Association.

² The St. Paul Bank for Cooperatives merged with CoBank, effective July I, 1999.

^{3 1} ACS Parent - Designates ACS that has PCA & FLCA Subsidaries

Table 25—Number, participation, and level of activity of rural electric¹ cooperatives, by State, Dec. 31, 1999²

| State | Cooperatives | Members | Revenue | State | Cooperatives | Members | Revenue |
|-------------|--------------|---------|-----------|----------------|--------------|---------|-------------|
| | Number | 1,000 | Mil. dol. | | Number | 1,000 | Mil. dol. |
| Alabama | 19 | 395 | 813 | Montana | 23 | 98 | 128 |
| Alaska | 9 | 77 | 177 | Nebraska | 3 | 9 | 111 |
| Arizona | 6 | 125 | 320 | New Mexico | 17 | 181 | 376 |
| Arkansas | 16 | 291 | 972 | New York | 4 | 16 | 14 |
| California | 3 | 15 | 21 | North Dakota | 23 | 118 | 883 |
| Colorado | 18 | 293 | 822 | Ohio | 21 | 291 | 553 |
| Florida | 11 | 436 | 1,092 | Oklahoma | 20 | 271 | 491 |
| Georgia | 38 | 1,069 | 2,744 | Oregon | 8 | 53 | 79 |
| Idaho | 4 | 30 | 36 | Pennsylvania | 11 | 177 | 188 |
| Illinois | 8 | 53 | 135 | South Carolina | 21 | 528 | 1,275 |
| Indiana | 22 | 253 | 625 | South Dakota | 32 | 126 | 248 |
| Iowa | 31 | 136 | 395 | Tennessee | 21 | 822 | 1,162 |
| Kansas | 28 | 152 | 341 | Texas | 44 | 602 | 1,303 |
| Kentucky | 26 | 666 | 1,479 | Virginia | 12 | 365 | 546 |
| Louisiana | 11 | 293 | 772 | Washington | 5 | 32 | 49 |
| Maine | 3 | 14 | 13 | Wisconsin | 17 | 133 | 293 |
| Michigan | 6 | 101 | 81 | Wyoming | 9 | 58 | 119 |
| Minnesota | 37 | 394 | 828 | Other States 3 | 9 | 918 | 1,822 |
| Mississippi | 15 | 405 | 896 | | | | |
| Missouri | 41 | 480 | 1,473 | United States | 672 | 10,466 | 23,662 |

¹ Source: Rural Utilities Service, USDA.

² Totals may not add due to rounding.

³ Includes States with fewer than three cooperatives – Delaware, Maryland, Nevada, New Jersey, North Carolina, Utah, Vermont, and West Virginia.

Table 26—Number, participation, and level of activity of rural credit unions¹, by State, Dec. 31, 1999²

| State | Cooperatives | Members | Savings | State | Cooperatives | Members | Saving |
|---------------|--------------|---------|-----------|---------------------------|--------------|---------|---------|
| | Number | 1,000 | Mil. dol. | | Number | 1,000 | Mil. do |
| Alabama | 10 | 25 | 89 | New Jersey | 6 | 12 | 20 |
| Arizona | 4 | 18 | 51 | New Mexico | 3 | 48 | 188 |
| Arkansas | 3 | 8 | 32 | New York | 27 | 164 | 775 |
| California | 52 | 902 | 5,211 | North Carolina | 13 | 30 | 65 |
| Colorado | 14 | 22 | 80 | North Dakota | 29 | 100 | 602 |
| Florida | 14 | 108 | 420 | | | | |
| Georgia | 10 | 35 | 97 | Ohio | 12 | 39 | 70 |
| Hawaii | 17 | 105 | 627 | Oklahoma | 4 | 7 | 30 |
| Idaho | 9 | 17 | 50 | Oregon | 9 | 63 | 239 |
| Illinois | 11 | 65 | 284 | Pennsylvania | 19 | 32 | 85 |
| | | | | Rhode Island | 3 | 69 | 590 |
| ndiana | 16 | 50 | 411 | | | | |
| lowa | 7 | 7 | 20 | South Carolina | 3 | 9 | 58 |
| Kansas | 16 | 75 | 236 | South Dakota | 7 | 11 | 33 |
| Kentucky | 7 | 31 | 85 | Tennessee | 8 | 15 | 38 |
| Louisiana | 8 | 16 | 43 | | | | |
| | | | | Texas | 32 | 105 | 375 |
| Maine | 8 | 20 | 83 | Utah | 9 | 15 | 47 |
| Maryland | 5 | 59 | 284 | | | | |
| Massachusetts | 4 | 16 | 64 | Vermont | 3 | 21 | 55 |
| Michigan | 24 | 391 | 1,290 | Virginia | 6 | 50 | 177 |
| Minnesota | 35 | 213 | 1,042 | Washington | 13 | 157 | 719 |
| | | | | West Virginia | 3 | 4 | 10 |
| Mississippi | 4 | 14 | 38 | Wisconsin | 65 | 616 | 2,525 |
| Missouri | 6 | 20 | 62 | Other States ³ | 7 | 31 | 121 |
| Montana | 10 | 54 | 208 | | | | |
| Nebraska | 15 | 20 | 95 | United States | 595 | 2 021 | 19.016 |
| Nevada | 5 | 45 | 291 | United States | 292 | 3,931 | 18,016 |

¹ Source: Credit Union National Association, Inc. (Includes federally chartered and State-chartered credit unions.)

² Totals may not add due to rounding.

³ Includes States with fewer than three cooperatives—Alaska, Connecticut, Delaware, New Hampshire, and Wyoming.

Table 27— Number, participation, and level of activity of dairy herd improvement associations, by State, Dec. 31, 1999²

| State | Members (herds) | Cows tested | State | Members (herds) | Cows tested |
|---------------|--------------------|----------------|----------------------------|--------------------|----------------|
| | Number | 1,000 | | Number | 1,000 |
| Alabama | 64 | 11.1 | Nebraska | 284 | 34.5 |
| Arizona | 61 | 79.1 | Nevada | 21 | 10.2 |
| Arkansas | 85 | 8.2 | New Hampshire | 114 | 10.9 |
| California | 1,128 | 872.7 | New Jersey | 91 | 7.8 |
| Colorado | 85 | 40.1 | New Mexico | 26 | 38.1 |
| Connecticut | 125 | 14.2 | New York | 2,940 | 331.6 |
| Delaware | 31 | 4.1 | North Carolina | 252 | 41.5 |
| Florida | 113 | 69.0 | North Dakota | 94 | 8.3 |
| Georgia | 238 | 59.2 | Ohio | 1,199 | 106.6 |
| Hawaii | 5 | 2.5 | Oklahoma | 142 | 19.2 |
| Idaho | 235 | 83.7 | Oregon | 289 | 51.5 |
| Illinois | 697 | 57.6 | Pennsylvania | 4,730 | 327.0 |
| Indiana | 553 | 46.3 | Rhode Island | 7 | .5 |
| lowa | 1,421 | 115.2 | South Carolina | 88 | 16.8 |
| Kansas | 343 | 38.9 | South Dakota | 305 | 31.1 |
| Kentucky | 329 | 27.8 | Tennessee | 276 | 34.3 |
| Louisiana | 148 | 20.5 | Texas | 331 | 133.7 |
| Maine | 169 | 15.6 | Utah | 250 | 47.6 |
| Maryland | 439 | 39.8 | Vermont | 565 | 56.8 |
| Massachusetts | 132 | 11.6 | Virginia | 553 | 71.6 |
| Michigan | 1,060 | 148.8 | Washington | 276 | 75.2 |
| Minnesota | 3,792 | 307.4 | West Virginia | 69 | 7.7 |
| Mississippi | 81 | 12.5 | Wisconsin | 8,512 | 641.0 |
| Missouri | 557 | 49.7 | Wyoming | 9 | 1.6 |
| Montana | 58 | 7.5 | United States ³ | 33,539 | 4,287.1 |

¹ Source: Agricultural Research Service, USDA. Totals may not add due to rounding.

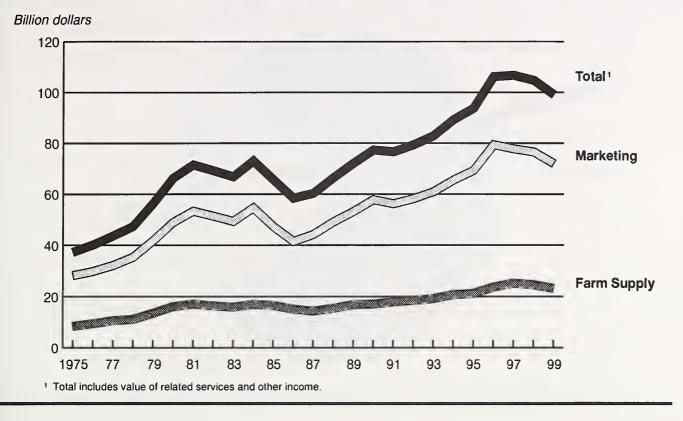
² Totals may not add due to rounding.

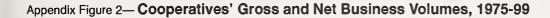
³ Fewer than 500.

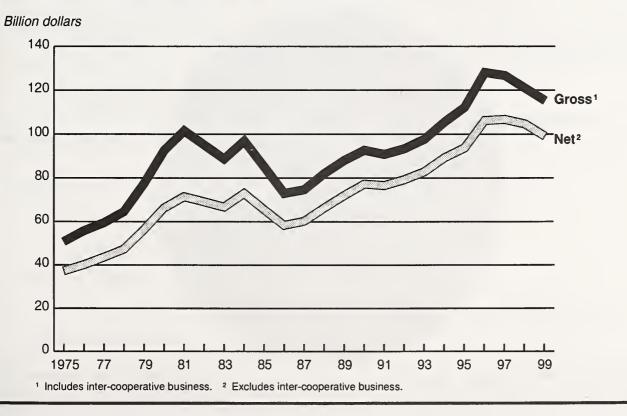
⁴ Includes Alaska, Puerto Rico, and Virgin Islands with 167 members and 39,345 cows tested.

Appendix Figures

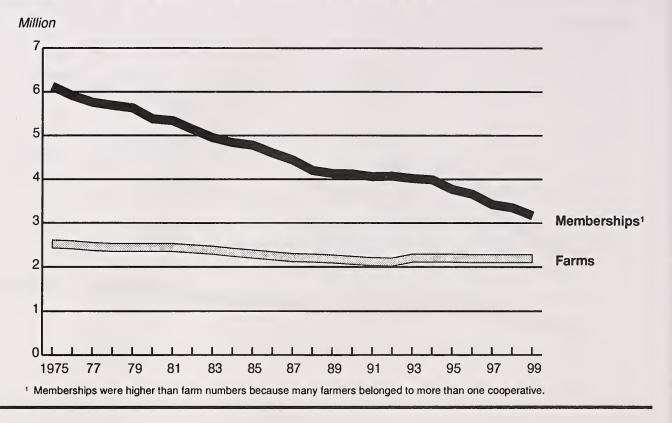
Appendix Figure 1— Cooperatives' Net Business Volume, 1975-99



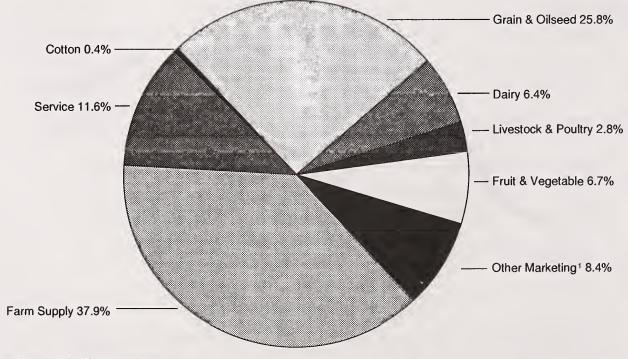




Appendix Figure 3— U.S. Farms and Farmer Cooperative Memberships, 1975-99



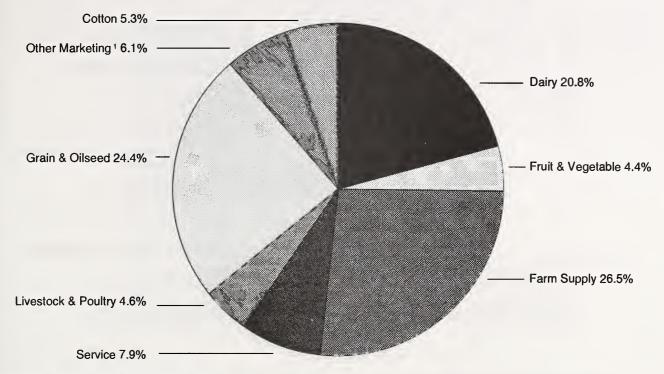
Appendix Figure 4— Distribution of Farmer Cooperatives, by Type, 1999



Percentage based on 3,466 cooperatives.

¹ Includes dry bean and pea, wool and mohair, nuts, rice, sugar, fishery, and other miscellaneous marketing cooperatives.

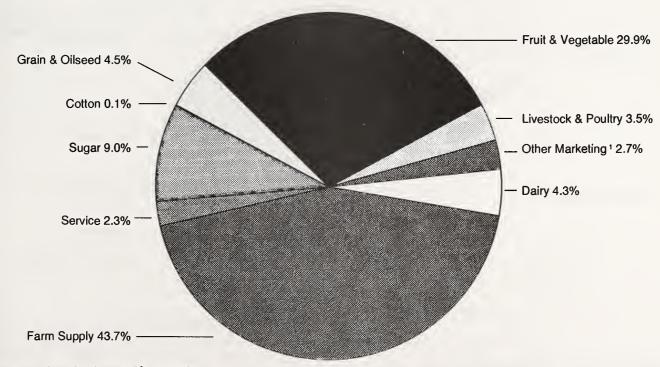
Appendix Figure 5— Distribution of Total Net Income, by Type of Cooperative, 1999



Percentage based on net income of \$1.3 billion.

¹ Includes dry bean and pea, nut, wool and mohair, tobacco, rice, sugar, fishery, and other miscellaneous marketing cooperatives.

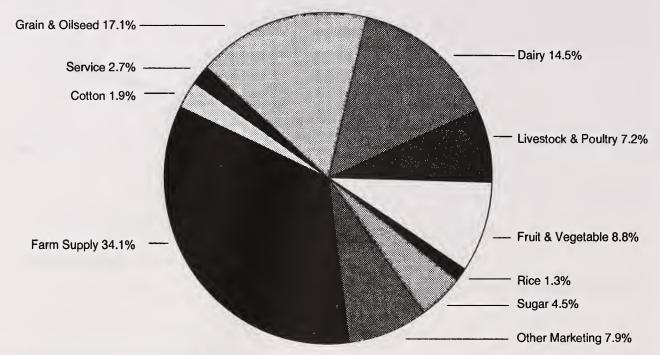
Appendix Figure 6— Distribution of Total Losses, by Type of Cooperative, 1999.



Percentage based on losses of \$284.1 million.

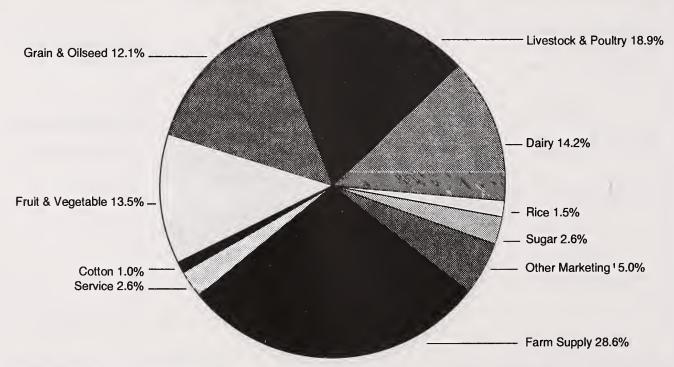
¹Includes dry bean and pea, nut, wool and mohair, tobacco, rice, fishery, and other miscellaneous marketing cooperatives.

Appendix Figure 7— Distribution of Total Net Worth, by Type of Cooperative, 1999



Percentage based on total net worth of \$20.3 billion.

Appendix Figure 8— Distribution of Total Full-Time Employees, by Type of Cooperative, 1999

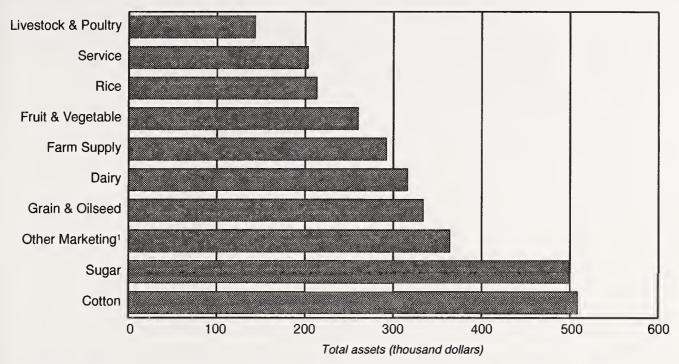


Percentage based on 172,951 full-time employees.

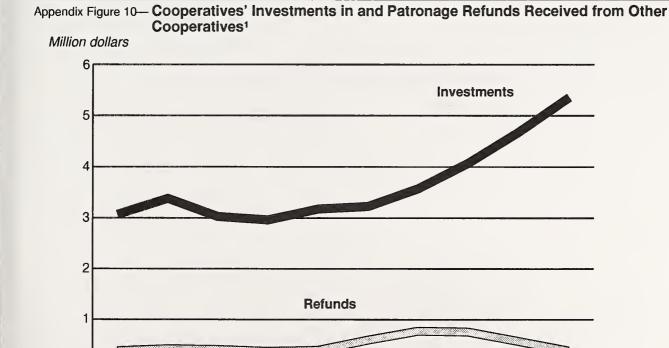
¹ Includes dry bean and pea, nut, wool and mohair, tobacco, fishery, and other miscellaneous marketing cooperatives.

Includes dry bean and pea, nut, wool and mohair, tobacco, fishery, and other miscellaneous marketing cooperatives.

Appendix Figure 9— Assets Per Full-Time Employee, by Type of Cooperative, 1999



¹ Includes dry bean and pea, nut, tobacco, wool and mohair, fishery, and other miscellaneous marketing cooperatives.



¹ Includes other farmer cooperatives, CoBank, and Banks for Cooperatives.









U.S. Department of Agriculture

Rural Business-Cooperative Service

Stop 3250

Washington, D.C. 20250-3250

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The cooperative segment of RBS (1) helps farmers and other rural residents develop cooperatives to obtain supplies and services at lower cost and to get better prices for products they sell; (2) advises rural residents on developing existing resources through cooperative action to enhance rural living; (3) helps cooperatives improve services and operating efficiency; (4) informs members, directors, employees, and the public on how cooperatives work and benefit their members and their communities; and (5) encourages international cooperative programs. RBS also publishes research and educational materials and issues *Rural Cooperatives* magazine.

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